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specific topic.

3,

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Welcome to STN International
NEWS
                Web Page URLs for STN Seminar Schedule - N. America
                 "Ask CAS" for self-help around the clock
NEWS 2
NEWS 3
        SEP 01
                New pricing for the Save Answers for SciFinder Wizard within
                STN Express with Discover!
        OCT 28
                KOREAPAT now available on STN
NEWS
     5 NOV 30 PHAR reloaded with additional data
NEWS
        DEC 01 LISA now available on STN
NEWS
     6
        DEC 09
                12 databases to be removed from STN on December 31, 2004
NEWS
     7
     8 DEC 15
NEWS
                MEDLINE update schedule for December 2004
NEWS
     9 DEC 17
                ELCOM reloaded; updating to resume; current-awareness
                alerts (SDIs) affected
NEWS 10 DEC 17
                COMPUAB reloaded; updating to resume; current-awareness
                alerts (SDIs) affected
                SOLIDSTATE reloaded; updating to resume; current-awareness
NEWS 11 DEC 17
                 alerts (SDIs) affected
NEWS
     12 DEC 17 CERAB reloaded; updating to resume; current-awareness
                alerts (SDIs) affected
     13 DEC 17
                THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS
NEWS
     14 DEC 30
                EPFULL: New patent full text database to be available on STN
NEWS 15 DEC 30
                CAPLUS - PATENT COVERAGE EXPANDED
NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and
                February 2005
     17 JAN 11
NEWS
                CA/CAPLUS - Expanded patent coverage to include Russia
                 (Federal Institute of Industrial Property)
NEWS EXPRESS
             JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
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NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that

General Internet Information

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FILE 'HOME' ENTERED AT 06:28:07 ON 14 JAN 2005

=> file reg
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

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STRUCTURE FILE UPDATES: 12 JAN 2005 HIGHEST RN 812631-13-3 DICTIONARY FILE UPDATES: 12 JAN 2005 HIGHEST RN 812631-13-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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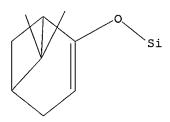
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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> Uploading C:\Examination Auxillary files\10784930\10784930 silylether.str

L1 STRUCTURE UPLOADED

=> d 11 L1 HAS NO ANSWERS L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 11 sss sam
SAMPLE SEARCH INITIATED 06:28:45 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 368 TO ITERATE

100.0% PROCESSED 368 ITERATIONS SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6210 TO 8510
PROJECTED ANSWERS: 1 TO 80

L2

¥,

1 SEA SSS SAM L1

=> d scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl- (9CI)
MF C12 H22 O Si

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search 11 sss full FULL SEARCH INITIATED 06:29:15 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 7774 TO ITERATE

100.0% PROCESSED 7774 ITERATIONS SEARCH TIME: 00.00.01

7 ANSWERS

L3 7 SEA SSS FUL L1

=> d scan

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Silane, [[(1R,5S)-6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]tris(1-methylethyl)- (9CI)
MF C18 H34 O Si

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy](1,1-

dimethylethyl)dimethyl- (9CI)

MF C15 H28 O Si

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Silane, [[(1R,4S,5S)-4-[2-(3-furanyl)ethyl]-4,6,6-

trimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]trimethyl-, rel- (9CI)

MF C19 H30 O2 Si

Relative stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Silane, [(6,6-dimethyl-4-methylenebicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl-, (1R)- (9CI)

MF C13 H22 O Si

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl- (9CI)
MF C12 H22 O Si

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Silane, [[(1R,5S)-6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]trimethyl(9CI)
MF C12 H22 O Si

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 161.76 161.97

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FILE COVERS 1907 - 14 Jan 2005 VOL 142 ISS 3 FILE LAST UPDATED: 12 Jan 2005 (20050112/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 13

L4 12 L3

=> 13/prep

12 L3

3246478 PREP/RL

L5 11 L3/PREP

(L3 (L) PREP/RL)

=> d 15 9-11 ti fbib abs

L5 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Highly efficient synthesis of (+)-nootkatone from (-)- β -pinene

AN 1981:15894 CAPLUS

DN 94:15894

TI Highly efficient synthesis of (+)-nootkatone from (-)- β -pinene

AU Miyashita, Masaaki; Yanami, Tetsuji; Yoshikoshi, Akira

CS Chem. Res. Inst. Non-Aqueous Solutions, Tohoku Univ., Sendai, Japan

SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu, 22nd (1979), 190-7 Publisher: Kyushu Daigaku Rigakubu Kagakka, Fukuoka, Japan. CODEN: 43IOAR

DT Conference

LA Japanese

GI

- AB (+)-Nootkatone (I, R = CMe:CH2) was stereoselectively prepared in 5 steps from (+)-nopinone via the addition reaction of II with CH2:CMeCH2SiMe3, methylation of III (R1 = H, Z = CH2), ozonolysis of III (R1 = Me, Z = CH2), reaction of III (R1 = Me, Z = O) with HCl, and dehydrochlorination of I (R = CMe2Cl).
- L5 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Highly efficient synthesis of (+)-nootkatone from (-)- β -pinene
- AN 1980:198554 CAPLUS
- DN 92:198554
- TI Highly efficient synthesis of (+)-nootkatone from (-)- β -pinene
- AU Miyashita, Masaaki; Yanami, Tetsuji; Yoshikoshi, Akira
- CS Chem. Res. Inst. Non-Aqueous Solutions, Tohoku Univ., Sendai, Japan
- SO Koen Yoshishu Tennen Yuki Kagobutsu Toronkai, 22nd (1979), 190-7 Publisher: Kyushu Univ., Fac. Sci., Dep. Chem., Fukuoka, Japan. CODEN: 42MAAQ
- DT Conference
- LA Japanese

GI

- AB trans-3-Ethylidenenopinone [I, Z = (E)-MeCH], obtained by condensation of I (Z = H2) with MeCHO, was treated with CH2:CHCH2SiMe3 in the presence of TiCl4 to give the methylbutenyl derivative I (Z = α -H, β -CH2:CHCH2CHMe), which was methylated with MeI in the presence of NaNH2 to give I (Z = α -Me, β -CH2: CHCH2CHMe), whose oxidation with Hg(OAc)2 gave I (Z = α -Me, β -MeCOCH2CHMe). Cyclization of the diketone in AcOH-HCl gave the (chloroisopropyl)naphthalenone II (R = CMe2Cl), which was dehydrochlorinated to give nootkatone (II, R = CMe:CH2) in 72% yield.
- L5 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Synthetic study of (+)-nootkatone from (-)- β -pinene
- AN 1980:129117 CAPLUS
- DN 92:129117
- TI Synthetic study of (+)-nootkatone from (-)- β -pinene

Yanami, Tetsuji; Miyashita, Masaaki; Yoshikoshi, Akira

Chem. Res. Inst. Non-Aqueous Solutions, Tohoku Univ., Sendai, 980, Japan CS

Journal of Organic Chemistry (1980), 45(4), 607-12 SO

CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LΑ English

GI

AΒ Condensing (+)-nopinone with MeCHO followed by acid treatment gave ethylidenenopinone I (Z = MeCH) whose treatment with CH2:CMeCH2SiMe3 gave I (Z = α -H, β -CH2:CMeCH2CHMe). The last was methylated with MeI-NaNH2 to give I (Z = α -Me, β -CH2:CMeCH2CHMe) whose ozonolysis gave I [Z = α -Me, β -(R)-MeCOCH2CHMe], reaction of which with HCl gave naphthalenone II (R = CMe2Cl), whose dehydrochlorination over Al2O3 gave (±)-nootkatone II (R = CMe:CH2).

=> save temp 14 silyl;ethers/a SILYL IS NOT A VALID SAVED NAME

Enter the name you wish to use for the saved query, answer set, or L-number list. The name must:

- 1. Begin with a letter,
- 2. Have 1-12 characters,
- 3. Contain only letters (A-Z) and numbers (0-9),
- 4. End with /Q for a query (search profile, structure, or screen set), /A for an answer set, or /L for an L-number list.
- 5. Not already be in use as a saved name,
- 6. Not be END, SAV, SAVE, SAVED
- 7. Not have the form of an L-number (Lnnn).

ENTER NAME OR (END):silylethrs/a

ANSWER SET L4 HAS BEEN SAVED AS 'SILYLETHRS/A'

SAVED ANSWER SET NAME MAY NOT BE USED IN QUERIES 'ETHERS/A' Saved answer sets must be activated before they are used in search profiles. This must be done in the same file in which they were created. Use the FILE command to change files if necessary, then enter "ACTIVATE" followed by the saved name (including /A) at an arrow prompt (=>). Use the L# assigned to the answer set in your search profile.

=> file req COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL SESSION ENTRY 19.29 181.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY SESSION

TOTAL

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TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> e Silane,	[(6,6	-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl-/cn
E1	1	SILANE Y/CN
E2	1	SILANE Z 6040/CN
E3	0>	SILANE, (6,6-DIMETHYLBICYCLO3.1.1HEPT-2-EN-2-YL)OXYTRIME
		THYL-/CN
E4	1	SILANE, (((((1R,2R)-2,3-DIHYDRO-1-(PHENYLSELENO)-1H-INDEN-2-
		YL)OXY)DIMETHYLSILYL)ETHYNYL)TRIMETHYL-, REL-/CN
E5	1	SILANE, (((((1R,2R)-2,3-DIHYDRO-2-IODO-1H-INDEN-1-YL)OXY)DIM
		ETHYLSILYL) ETHYNYL) TRIMETHYL-, REL-/CN
E6	1	SILANE, (((((1R,2R)-2-IODOCYCLOHEXYL)OXY)DIMETHYLSILYL)ETHYN
		YL)TRIMETHYL-, REL-/CN
E7	1	SILANE, (((((1R,2R)-2-IODOCYCLOPENTYL)OXY)DIMETHYLSILYL)ETHY
		NYL)TRIMETHYL-, REL-/CN
E8	1	SILANE, (((((2,4,6-TRICHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)
		TRIS (METHYLENE)) TRIS (DIMETHYLPHENYL-/CN
E9	1	SILANE, (((((2,4,6-TRICHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)
		TRIS (METHYLENE)) TRIS (METHYLDIPHENYL-/CN
E10	1	SILANE, (((((2,4-DICHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)TRI
		S (METHYLENE)) TRIS (DIMETHYLPHENYL-/CN
E11	1	SILANE, (((((2,4-DICHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)TRI
		S (METHYLENE)) TRIS (METHYLDIPHENYL-/CN
E12	1	SILANE, (((((2-CHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)TRIS(ME
		THYLENE))TRIS(DIMETHYLPHENYL-/CN

=> file reg COST IN U.S. DOLLARS	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.86	182.12
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY 0.00	SESSION -2.19

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DICTIONARY FILE UPDATES: 12 JAN 2005 HIGHEST RN 812631-13-3

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> file caplu COST IN U.S. DOLLARS TOTAL SINCE FILE ENTRY SESSION FULL ESTIMATED COST 0.43 182.55 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL. ENTRY SESSION 0.00 -2.19CA SUBSCRIBER PRICE

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=> d his

(FILE 'HOME' ENTERED AT 06:28:07 ON 14 JAN 2005)

FILE 'REGISTRY' ENTERED AT 06:28:14 ON 14 JAN 2005

L1 STRUCTURE UPLOADED
L2 1 SEARCH L1 SSS SAM
L3 7 SEARCH L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 06:29:34 ON 14 JAN 2005

L4 12 L3 L5 11 L3/PREP SAVE TEMP L4 SILYL SILYLETHRS/A

FILE 'REGISTRY' ENTERED AT 06:42:12 ON 14 JAN 2005
E SILANE, [(6,6-DIMETHYLBICYCLO[3.1.1]HEPT-2-EN-2-YL)OXY]TRIMET

FILE 'REGISTRY' ENTERED AT 06:43:09 ON 14 JAN 2005

FILE 'CAPLUS' ENTERED AT 06:43:14 ON 14 JAN 2005

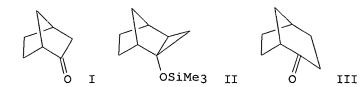
=> d 15 5-8 ti fbib abs

- L5 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Extracyclic stereocontrolled alkylation of (1R,5S)-4-ethyl-6,6-dimethyl-3-(phenylsulfonyl)bicyclo[3.1.1]hept-3-en-2-one. A highly stereocontrolled synthesis of (-)-kanshone A
- AN 1993:650190 CAPLUS
- DN 119:250190
- TI Extracyclic stereocontrolled alkylation of (1R,5S)-4-ethyl-6,6-dimethyl-3-(phenylsulfonyl)bicyclo[3.1.1]hept-3-en-2-one. A highly stereocontrolled synthesis of (-)-kanshone A
- AU Kato, Michiharu; Watanabe, Masataka; Awen, Bahlul Z.
- CS Inst. Chem. React. Sci., tohoku Univ., Sendai, 980, Japan
- SO Journal of Organic Chemistry (1993), 58(19), 5145-52 CODEN: JOCEAH; ISSN: 0022-3263
- DT Journal
- LA English
- OS CASREACT 119:250190

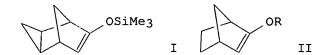
GT

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- (1R, 5S) 4 Ethyl 6, 6 dimethyl 3 (phenyl sulfonyl) bicyclo[3.1.1] hept 3 en 2 -AB one (I; R1 = SO2Ph, R2 = Et) was prepared from (+)-nopinone in six steps and 70% overall yield via (1R,5R)-6,6-dimethyl-3-(phenylthio)bicyclo[3.1.1]hep t-3-en-2-one (I; R1 = SPh, R2 = H). Alkylation reactions of I (R1 = SO2Ph, R2 = Et) with alkyl bromides (allyl, 3-methyl-2-butenyl, propargyl, benzyl) in the presence of K2CO3 in MeCN proceeded in regioand extracyclic stereocontrolled fashion to give, as the major product, mixts. of γ -alkylated products II (R1 = SO2Ph, R3 = CH2CH:CH2, CH2CH:CMe3, CH2C.tplbond.CH, PhCH2, CH2CO2Me) possessing a new chiral center of R configuration adjacent to a ring and III (R3 = CH2CH:CH2, CH2CH: CMe2, CH2C.tplbond.CH, PhCH2) possessing that of S configuration, whose ratios are II-III 10:1, 7:1, 13:1 and 18:1, resp., along with α -alkylated products IV (R4 = CH2CH:CH2, CH2CH:CMe2, CH2C.tplbond.CH, PhCH2) and O-alkylated products V (R5 = CH2CH:CH2, CH2CH:CMe2) on reactions with allyl and dimethylallyl bromides. In addition, reaction of I (R1 = SO2Ph, R2 = Et) with Me bromoacetate provided II (R1 = SO2Ph, R3 = CH2CO2Me) as the sole product. In the presence of a combined reagent, K2CO3-Cs2CO3 (9:1), in MeCN, considerable high diastereoselection was detected, i.e., reactions of I (R1 = SO2Ph, R2 = Et) with allyl and dimethylallyl bromides produced mixts. of II and III 20:1 and 12:1 ratios, resp. Reaction products were separated by chromatog. on silica gel, while the major diastereomers II (R1 = SO2Ph, R3 = CH2CH: CH2, CH2C.tplbond.CH, PhCH2, CH2CO2Me) highly crystalline themselves, were readily obtained as pure crystals by recrystn. Mechanism of diastereoselection and the scope and limitations of the extracyclic stereocontrolled alkylation are briefly discussed. In the application of II as the synthetic intermediate for the asym. synthesis, starting with (1R,5S)-6,6-dimethyl-4-[(1R)-1-methyl-3butenyl]-3-(phenylsulfonyl)bicyclo[3.1.1]hept-3-en-2-one (II; R1 = SO2Ph, R3 = CH2CH:CH2), (-)-kanshone A (VI), a nardosinane sesquiterpene, was synthesized in a highly stereoselective fashion in 12 steps via (1R, 4R, 5R) - 4, 6, 6 - trimethyl - 4 - [(1R) - 1 - methyl - 3 - butenyl] bicyclo[3.1.1] heptan-2-one (II; R1 = H, R3 = CH2CH:CH2) and its cyclobutane-ring opening product, (4S, 4aR, 5R) - 1 - acetoxy - 4 - isopropenyl - 4a, 5 - dimethyl - 3, 4, 4a, 5, 6, 7 hexahydronaphthalene.

- L5 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs
- AN 1987:101776 CAPLUS
- DN 106:101776
- TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs
- AU Patel, Vijay; Ragauskas, Arthur J.; Stothers, J. B.
- CS Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.
- SO Canadian Journal of Chemistry (1986), 64(7), 1440-9 CODEN: CJCHAG; ISSN: 0008-4042
- DT Journal
- LA English
- OS CASREACT 106:101776
- GΙ



- AB Homoketonization of some readily prepared cyclopropoxides provides a new synthetic method for ring expansion of the [2.2.1] and [2.2.2] ring systems. Cyclopropanation of the trimethylsilyl enol ethers derived from a variety of polycyclic ketones affords the required cyclopropyl silyl ethers, which may be ketonized directly or hydrolyzed to the corresponding cyclopropanols before ketonization. The results for fourteen examples serve to define the scope of the ring expansion process, and the silyl enol ethers, cyclopropyl silyl ethers, and most of the corresponding cyclopropanols have been characterized by 13C NMR. The stereochem. of the ketonization leading to ring expansion was established by deuterium-labeling expts. Thus, bicyclic ketone I was converted to the trimethylsilyl enol ether, which underwent cyclopropanation with CH2I2 in presence of a Zn-Ag couple and the resulting cyclopropyl derivative II was treated with NaOH/MeOH to give ring expansion product III.
- L5 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors
- AN 1986:69020 CAPLUS
- DN 104:69020
- TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors
- AU Ragauskas, Arthur J.; Stothers, J. B.
- CS Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.
- SO Canadian Journal of Chemistry (1985), 63(11), 2969-74 CODEN: CJCHAG; ISSN: 0008-4042
- DT Journal
- LA English
- OS CASREACT 104:69020
- GI



- AB Simmons-Smith cyclopropanation of silyl enol ethers, e.g. I, II (R = Me3Si, Me3CSiMe2), of polycyclic ketones was studied. Product compns. depended on concns. of reactants, and tert-butyldimethylsilyl derivs. gave ring-expanded allylic ethers more efficiently than did the corresponding trimethylsilyl derivs.
- L5 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Electronic absorption and circular dichroism spectra of the perturbed coplanar cis-diene chromophore in deuterium- and methyl-substituted 7,7-dimethylbicyclo[4.1.1]octa-2,4-dienes
- AN 1983:521719 CAPLUS
- DN 99:121719
- TI Electronic absorption and circular dichroism spectra of the perturbed coplanar cis-diene chromophore in deuterium- and methyl-substituted 7,7-dimethylbicyclo[4.1.1]octa-2,4-dienes
- AU Browne, Alan R.; Kearney, Francis R.; Mason, Stephen F.; Paquette, Leo A.; Drake, Alex F.
- CS Dep. Chem., Ohio State Univ., Columbus, OH, 43210, USA
- SO Journal of the American Chemical Society (1983), 105(19), 6123-9 CODEN: JACSAT; ISSN: 0002-7863
- DT Journal
- LA English

GΙ

- AB Optically active title compds. I (R=D) and II (R=D) were prepared with known absolute configuration from (+)-nopinone (III); also, I (R=Me) and II (R=Me) were prepared from (+)- α -pinene and III, resp. In I (R=D) and II (R=D) the chirality is due solely to isotopic substitution. The contributions of the C-D and C-Me groups to the observed absorption and CD spectra are analyzed. In particular, attention is directed to the planar cis-1,3-diene unit in I and II, the resultant zero dihedral angle between the C2-C3 and C4-C5 bonds at equilibrium, and the consequences of this unique fixed geometry.
- => d 15 1-4 ti fbib abs
- L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
- TI Electrooxidative Coupling of Furans and Silyl Enol Ethers: Application to the Synthesis of Annulated Furans
- AN 2004:344244 CAPLUS
- DN 141:88977
- TI Electrooxidative Coupling of Furans and Silyl Enol Ethers: Application to the Synthesis of Annulated Furans

AU Sperry, Jeffrey B.; Whitehead, Christopher R.; Ghiviriga, Ion; Walczak, Ryan M.; Wright, Dennis L.

CS Department of Chemistry, Dartmouth College, Hanover, NH, 03755, USA

SO Journal of Organic Chemistry (2004), 69(11), 3726-3734 CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 141:88977

The preparation of annulated furan systems as key synthetic intermediates through the application of a two-step annulation involving an electrochem. ring closure between a furan and a silyl enol ether has been studied. The reaction was shown to be quite general for the formation of six-membered rings in good yields and was tolerant of a variety of different functional groups. The ring closure was highly stereoselective, leading to the formation of cis-fused systems. Cyclic voltammetry and probe mols. were used to gain mechanistic insight into the reaction. These studies suggested that the key ring closure involved an initial oxidation of the silyl enol ether to a radical cation followed by a furan-terminated cyclization.

RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone

AN 2002:675080 CAPLUS

DN 138:4699

TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone

AU Campos, Kevin R.; Lee, Sandra; Journet, Michel; Kowal, Jason J.; Cai, Dongwei; Larsen, Robert D.; Reider, Paul J.

CS Department of Process Research, Merck Research Laboratories, Rahway, NJ, 07065, USA

SO Tetrahedron Letters (2002), 43(39), 6957-6959 CODEN: TELEAY; ISSN: 0040-4039

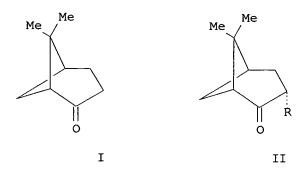
PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 138:4699

GΙ



AB A general method for the monoalkylation of (+)-nopinone (I) was developed for a variety of carbon and heteroatom electrophiles to afford the kinetically controlled product II with high diastereoselectivity (98% d.e.) and excellent yield (75-90%).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Process for producing bicyclic amino alcohol from (+)-nopinone

AN 2001:31442 CAPLUS

DN 134:101033

TI Process for producing bicyclic amino alcohol from (+)-nopinone

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

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GΙ

AB The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with XCH2CO2R1 (X = halo; R1 = alkyl) in the presence of an additive and a base, followed by conversion of the product into an oxime, and reduction of the oxime. I is then converted in several steps to a known PGD2 antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

Oxidative Coupling of the Enolate Anion of (1R)-(+)-Verbenone with Fe(III) and Cu(II) Salts. Two Modes of Conjoining This Bicyclic Ketone across a Benzene Ring

AN 1995:865233 CAPLUS

DN 123:340464

Oxidative Coupling of the Enolate Anion of (1R)-(+)-Verbenone with Fe(III) and Cu(II) Salts. Two Modes of Conjoining This Bicyclic Ketone across a Benzene Ring

AU Paquette, Leo A.; Bzowej, Eugene I.; Branan, Bruce M.; Stanton, Kenetha J.

CS Evans Chemical Laboratories, Ohio State University, Columbus, OH, 43210, USA

SO Journal of Organic Chemistry (1995), 60(22), 7277-83 CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

I

DT Journal

LA English

OS CASREACT 123:340464

GΙ

AB The regioselectivity of the oxidative coupling of the enolate anion of (1R)-(+)-verbenone (97% ee) (I) was examined with CuCl2 and FeCl3 as catalysts. With Cu(II), selective formation of the γ,γ product is observed An increase in temperature above -40 °C results in further oxidation of the intra-ring ethano bridge to a trans double bond, provided that excess LDA has been added. In the presence of Fe(III), the coupling is partially diverted to the α, γ -product, which has proven amenable to direct conversion to that C2-sym. "dimer" having the carbonyl groups in a para relationship. The second C2 "dimer" featuring meta orientation of the ketone functionalities has been conveniently prepared from the trienedione or its derived diol by thermal or photochem. trans \rightarrow cis equilibration, thermal 6π electrocyclization with concurrent aromatization, and PCC oxidation Some potential applications of this conformationally rigid benzenoid system to enantioselective synthesis are outlined.

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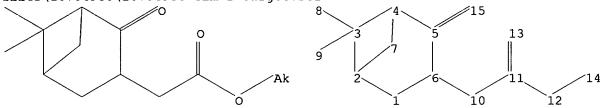
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FULL ESTIMATED COST

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chain nodes :

8 9 10 11 12 13 14 15

ring nodes :

1 2 3 4 5 6 7

chain bonds :

3-8 3-9 5-15 6-10 10-11 11-12 11-13 12-14

ring bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-15 11-12 11-13 12-14

exact bonds :

3-8 3-9 6-10 10-11

Hydrogen count :

6:>= minimum 1 10:>= minimum 2

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L1 STRUCTURE UPLOADED

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Structure attributes must be viewed using STN Express query preparation.

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L11 NOT FOUND

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=> search l1 sss sam

SAMPLE SEARCH INITIATED 07:12:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 100 TO ITERATE

100.0% PROCESSED 100 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1401 TO 2599

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FULL SEARCH INITIATED 07:12:53 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2159 TO ITERATE

100.0% PROCESSED 2159 ITERATIONS 5 ANSWERS

SEARCH TIME: 00.00.01

L3 5 SEA SSS FUL L1

=> d scan

L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Bicyclo[3.1.1]heptane-3-acetic acid, 2,2,6,6-tetramethyl-4-oxo-, methyl

ester, $[1R-(1\alpha,3\beta,5\alpha)]-(9CI)$

MF C14 H22 O3

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

MF C13 H20 O3

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-, ethyl ester,

(1R, 3R, 5S) - (9CI)

MF C13 H20 O3

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Bicyclo[3.1.1]heptane-3-acetic acid, 2,2,6,6-tetramethyl-4-oxo-, methyl ester, $[1R-(1\alpha,3\alpha,5\alpha)]-(9CI)$

MF C14 H22 O3

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-, methyl ester

MF C12 H18 O3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 167.38 167.59

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L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone

AN 2002:675080 CAPLUS

DN 138:4699

TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone

AU Campos, Kevin R.; Lee, Sandra; Journet, Michel; Kowal, Jason J.; Cai, Dongwei; Larsen, Robert D.; Reider, Paul J.

CS Department of Process Research, Merck Research Laboratories, Rahway, NJ, 07065, USA

SO Tetrahedron Letters (2002), 43(39), 6957-6959 CODEN: TELEAY; ISSN: 0040-4039

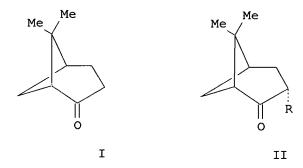
PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 138:4699

GI



AB A general method for the monoalkylation of (+)-nopinone (I) was developed for a variety of carbon and heteroatom electrophiles to afford the kinetically controlled product II with high diastereoselectivity (98% d.e.) and excellent yield (75-90%).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for producing bicyclic amino alcohol from (+)-nopinone

AN 2001:31442 CAPLUS

DN 134:101033

TI Process for producing bicyclic amino alcohol from (+)-nopinone

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

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os CASREACT 134:101033; MARPAT 134:101033

GΙ

AΒ The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with XCH2CO2R1 (X = halo; R1 = alkyl) in the presence of an additive and a base, followed by conversion of the product into an oxime, and reduction of the oxime. I is then converted in several steps to a known PGD2 antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

ΤI Process for producing benzothiophenecarboxylic acid amide derivatives

1999:640851 CAPLUS AN

DN 131:243177

TΙ Process for producing benzothiophenecarboxylic acid amide derivatives

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Okada, Tetsuo; Kakinuma, Makoto

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DTPatent

LΑ Japanese

FAN CNT 1

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ZA 2000004721 A 20010308 ZA 2000-47		20000907
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NO 2000004918 A 20001128 NO 2000-49	18	20000929
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JP 1998-87		19980331
WO 1999-JE US 2000-64		19990330 20000929
CASREACT 131:243177: MARPAT 131:243177	1,333 A3	20000323

CASREACT 131:243177; MARPAT 131:243177

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- Disclosed are a process for producing 7-[(1R,2R,3S,5S)-2-(hydroxybenzo[b]thiophen-3-ylcarbonylamino)-10-norpinan-3-yl]-5-heptenoic acid compds. having PGD2 antagonism represented by formula (I; R = H, HO-protecting group; X = H, alkyl; the double bond is either in E or Z configuration), pharmaceutically acceptable salts thereof or hydrates of the same characterized by reacting an amino alc., namely [(1R, 2R, 3R, 5S)-2-amino-10-norpinan-3-yl] ethanol, of formula (II) or its salt with a hydroxybenzo[b]thiophene-3-carboxylic acid compound of formula (III) or its reactive derivative, oxidizing the obtained product in the presence of 2,2,6,6,-tetramethylpiperidine-1-oxyls, and then reacting with an ylide under Wittig reaction conditions optionally followed by deblocking. The amino alc. (II) is prepared by reduction of oximes (IV; R2 = alkyl; R3 = H, alkyl). I are useful for the treatment of diseases related to failure of mast cell function caused by over-production of PGD and are used as remedies for systemic mast cell disease or mast cell activation disorder, allergic rhinitis, allergic conjunctivitis, nettle rash (urticaria), ischemic reperfusion disorder, and atopic dermatitis and as bronchodilators, antiasthmatics, and antiinflammatory agents (no data). II.PhCO2H (preparation given) was suspended in water, treated with 1 N aqueous HCl,

and extracted with EtOAc to remove precipitated benzoic acid. The organic layer was

washed with water and the combined aqueous layer was treated with 4 N aqueous NaOH $\,$

under ice-cooling and then dropwise with a solution of 5- (benzenesulfonyloxy)benzo[b]thiophene-3-carbonyl chloride in THF over 15 min and stirred at the same temperature for 15 h to give 95.6% intermediate (V; R1 = CH2OH). The latter alc. was dissolved in EtOAc, treated with TEMPO and KBr and then dropwise with a solution of 0.41 N aqueous NaOCl (adjusted to

9.5 with NaHCO3) at -1° to 6° over 3 min, and stirred at the same temperature for 10 min to give 100% aldehyde (V; R1 = CHO) which underwent Wittig reaction with 4-carboxybutyltriphenylphosphonium bromide in the presence of Me3COK in THF under ice-cooling for 2 h followed by treatment with a mixture of 4 N aqueous NaOH and DMSO at 55 $^\circ$ for 2 h to give II 76.0% (OR = 5-OH, X = H).

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Catalyst components for polymerization of α -olefins and manufacture of α -olefin polymers

AN 1995:220794 CAPLUS

DN 122:188427

Нq

TI Catalyst components for polymerization of $\alpha\text{--olefins}$ and manufacture of $\alpha\text{--olefin}$ polymers

IN Sugano, Toshihiko; Uchino, Hidefumi; Takahama, Tomohiko

PA Mitsubishi Petrochemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp. CODEN: JKXXAF

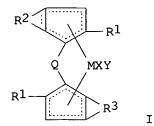
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 06239917	A2	19940830	JP 1993-30932	19930219
				JP 1993-30932	19930219

OS MARPAT 122:188427



ΑB α -Olefins are polymerized with catalysts comprising transition metal compds. I [R1 = H, C1-6 hydrocarbyl, Si-containing C1-12 hydrocarbyl; R2-3 = C3-30 hydrocarbylene; 1 of R2-3 have condensed ring; M = Group IVB-VIB transition metal; Q = C1-20 hydrocarbylene, (C1-20 hydrocarbyl-containing) silylene, (C1-20 hydrocarbyl-containing) germylene; X, Y = H, halo,

(O-containing) C1-20 hydrocarbyl] and another component chosen from Al oxy compds., Lewis acids, and ionic compds. reactive with I. Thus, propylene was prepolymd. with methylalumoxane and dimethylsilylenebis[4-(5,9,9trimethyltricyclo[6.1.1.0]deca-4,6-dien-3-yl)]zirconium dichloride (II; preparation given) at 20° and 1 kg/cm2G for 15 min and polymerized at 40° and 7 kg/cm2G for 2 h to give a polymer with catalyst activity 10.1 + 104 g-polymer/g-II, number average mol. weight 24.5 + 104, polydispersity 2.21, and m.p. 154.5°.

L4

ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological ΤI activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2

AN 1990:179482 CAPLUS

DN 112:179482

TΙ Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2

ΑU Seno, Kaoru; Hagishita, Sanji

CS Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, 553, Japan

SO Chemical & Pharmaceutical Bulletin (1989), 37(6), 1524-33 CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LΑ English

OS CASREACT 112:179482

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Four stereoisomers of the title compds., I (1R,2S,3S,5S; 1R,2R,3S,5S; AB 1R,2S,3R,5S) and II (2R,3R), were synthesized from (-)-myrtenol and (+)-nopinone. The (1R,2R,3S,5S)-isomer of I had the most potent inhibitory activity against platelet aggregation and did not show partial agonist activity (shape change of platelets). The antipode I (1S,2S,3R,5R) and derivs. III (R = Me, PhCH2, biphenylyl, 2-naphthyl, p-02NC6H4, p-MeOC6H4, PhCH2CH2CH2, PhCH2CH2, p-ClC6H4, o-ClC6H4, m-ClC6H4, p-EtC6H4, p-MeC6H4, p-FC6H4, p-HOC6H4) were also prepared The one-carbon

homologated compound IV was also prepared The inhibitory activities of these compds. against platelet aggregation were measured.

- L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Stereoselective formation from a (1S,5S)-(-)-verbenone-derived cyclopentadiene of dimeric and mixed titanium and zirconium dichloride complexes
- AN 1989:231800 CAPLUS
- DN 110:231800
- TI Stereoselective formation from a (1S,5S)-(-)-verbenone-derived cyclopentadiene of dimeric and mixed titanium and zirconium dichloride complexes
- AU Moriarty, Kevin J.; Rogers, Robin D.; Paquette, Leo A.
- CS Evans Chem. Lab., Ohio State Univ., Columbus, OH, 43210, USA
- SO Organometallics (1989), 8(6), 1512-17 CODEN: ORGND7; ISSN: 0276-7333
- DT Journal
- LA English
- OS CASREACT 110:231800
- GI For diagram(s), see printed CA Issue.
- AB The optically active cyclopentadienide anion I undergoes reaction with TiCl3·3THF, CpTiCl3, ZrCl4, and Cp*ZrCl3 (Cp = η 5-cyclopentadienyl, Cp* = η 5-pentamethylcyclopentadienyl) to form a single complex in each instance. That coordination occurs above plane in I, its less sterically congested surface, was established by 1H and 13C NMR correlations and by x-ray crystallog. anal. of Ti complex II. When CpZrCl3 is the coreactant, a 1:1 mixture of both possible stereoisomeric complexes results. Thus, I is a more facially discriminating species than is III, a finding that provides some mechanistic insight into the electronic character and mode of reaction of cyclopentadienide anions grafted to plane-nonsym. bicyclic frameworks.

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                 visualization results
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NEWS 6 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 7 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 8 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 9 MAR 22 EMBASE is now updated on a daily basis
NEWS 10 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 11 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC
                 thesaurus added in PCTFULL
NEWS 12 APR 04 STN AnaVist $500 visualization usage credit offered
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NEWS 14 APR 12 Improved structure highlighting in FQHIT and QHIT display
                 in MARPAT
NEWS 15 APR 12 Derwent World Patents Index to be reloaded and enhanced during
                 second quarter; strategies may be affected
NEWS 16 MAY 10 CA/Caplus enhanced with 1900-1906 U.S. patent records
NEWS 17 MAY 11 KOREAPAT updates resume
NEWS 18 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 19 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAplus and
                 USPATFULL/USPAT2
NEWS 20 MAY 30 The F-Term thesaurus is now available in CA/CAplus
NEWS 21 JUN 02 The first reclassification of IPC codes now complete in
                 INPADOC
                 FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
NEWS EXPRESS
                 CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0jc(jp),
                 AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
                 V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
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COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
1.32
1.53

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=> e Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-/cn
                   BICYCLO (4.4.0) DECANE-3,4,8,9-TETRACARBOXYLIC ACID DIANHYDR
E1
                   IDE-CYCLOHEXANE-1,2,4,5-TETRACARBOXYLIC ACID DIANHYDRIDE-4,4
                    '-DIAMINODIPHENYL METHANE POLYMER/CN
                   BICYCLO (4.4.0) DECANE-3,4,8,9-TETRACARBOXYLIC ACID DIANHYDR
E2
             1
                   IDE-M-PHENYLENEDIAMINE POLYMER/CN
             0 --> BICYCLO3.1.1HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-/CN
E3
                   BICYCLO(0,1,3) HEXANE, 2,6,6-TRIMETHYL-/CN
F.4
                   BICYCLO(0.1.3) HEXANE, 3,3-DIMETHYL-/CN
E5
E6
             1
                   BICYCLO(1.1.0) BUT-1(2)-ENE/CN
                   BICYCLO(1.1.0)BUT-1(3)-EN-2-IUM-2-YLIDENE, 4-OXO-/CN
E7
             1
             1
                   BICYCLO(1.1.0)BUT-1(3)-EN-2-YL, 4-OXO-, ION(1-)/CN
F.8
E9
             1
                   BICYCLO(1.1.0)BUT-1(3)-EN-2-YLIDENE/CN
                   BICYCLO(1.1.0)BUT-1(3)-EN-2-YLIDENE, 4-OXO-/CN
E10
             1
E11
             1
                   BICYCLO(1.1.0)BUT-1(3)-ENE/CN
             1
                   BICYCLO(1.1.0)BUT-1(3)-ENE, 2,2,4,4-TETRAFLUORO-/CN
E12
=> e Bicyclo(3.1.1)heptane-3-acetic acid, 6,6-dimethyl-2-oxo-/cn
E1
                   BICYCLO(3.1.1) HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-METHYLEN
                   E-A-((4-METHYLPHENYL)SULFONYL)-, METHYL ESTER, (1R, 3R,
                   5R) -/CN
E2
                   BICYCLO(3.1.1) HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-METHYLEN
                   E-A-((4-METHYLPHENYL)SULFONYL)-, METHYL ESTER, (1R, 3S,
                   5R) -/CN
E3
             0 --> BICYCLO(3.1.1) HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-/CN
E4
                   BICYCLO(3.1.1) HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ET
                   HYL ESTER, (1R, 3R, 5S) - /CN
                   BICYCLO(3.1.1) HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ET
E5
             1
                   HYL ESTER, (1R, 3S, 5S) - /CN
             1
                   BICYCLO(3.1.1) HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ET
E.6
                   HYL ESTER, (1R-(1A,3A,5A))-/CN
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                   BICYCLO(3.1.1) HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ME
E7
                   THYL ESTER/CN
E8
             1
                   BICYCLO(3.1.1) HEPTANE-3-ACETONITRILE, 2-CYANO-2,6,6-TRIMETHY
                   L-4-OXO-, (1A, 2B, 3A, 5A)-/CN
E9
             1
                   BICYCLO(3.1.1) HEPTANE-3-ACETONITRILE, 6,6-DIMETHYL-2-METHYLE
                   NE-A, A-BIS (METHYLTHIO) -/CN
             1
                   BICYCLO(3.1.1)HEPTANE-3-ACETONITRILE, 6,6-DIMETHYL-2-OXO-, (
E10
                   1R, 3R, 5S) - /CN
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E11
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             1
                   BICYCLO(3.1.1) HEPTANE-3-BUTANOIC ACID, A-FLUORO-6,6-DI
E12
                   METHYL-2-(((5-((2-METHYL-1H-PYRROL-1-YL)SULFONYL)-2-THIENYL)
                   CARBONYL) AMINO) -, (1R, 2R, 3S, 5S) -/CN
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=> e4

1 "BICYCLO(3.1.1) HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ETHYL ESTER, (1R,3R,5S)-"/CN

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      - Same as SQD, but 3-letter amino acid codes are used
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RN
     126264-10-6 REGISTRY
     Entered STN: 06 Apr 1990
ED
     Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-, ethyl
     ester, (1R, 3R, 5S) - (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-, ethyl ester,
     [1R-(1\alpha,3\alpha,5\alpha)] -
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STEREOSEARCH
FS
     C13 H20 O3
MF
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	4 REFERENCES IN FILE CA (1907 TO DATE) 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)
=> e5 L2	1 "BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ETHYL ESTER, (1R,3s,5s)-"/CN
=> e6 L3	1 "BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ETHYL ESTER, (1R-(1A,3A,5A))-"/CN
=> e7 L4	1 "BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, METHY L ESTER"/CN
=> e nopinon E1 E2 E3 E4 E5 E6	e/cn 1 NOPINOL, 2-PHENYL-/CN 1 NOPINOL, 2-PROPYL-/CN 1> NOPINONE/CN 1 NOPINONE, A-BROMO-/CN 1 NOPINONE, SEMICARBAZONE/CN 1 NOPIRON WF/CN
E7 E8	1 NOPLA KE 831/CN 1 NOPLA KE 831/CN 1 NOPOCURE 204, POLYMER WITH 1,6-HEXANEDIYL DI-2-PROPENOATE AN D 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2/CN 1 NOPOCURE 204, POLYMER WITH 1,6-HEXANEDIYL DI-2-PROPENOATE, 2
5	-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY) METHYL) PROPOXY) METHYL)-2-(((1-OXO-2-PROPENYL)OXY) METHYL) -1,3 -PROPANEDIYL DI-2-PR/CN
E10	NOPOCURE 204, POLYMER WITH 2,2-BIS(((1-OXO-2-PROPENYL)OXY)ME THYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND 2-((3-((1-OXO-2-PROPENYL)OXY))OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)ME THYL)-2-(((1-OXO-2-P/CN

NOPOCURE 204, POLYMER WITH 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2 E11 -BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-OX O-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND A,A',.A/CN E12 1 NOPOCURE 204, POLYMER WITH 2-((3-((1-0X0-2-PROPENYL)OXY)-2,2 -BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-OX O-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND OXYBIS (METHYL-2, 1-E/CN

L5

1 NOPINONE/CN

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 29.66 29.87

FULL ESTIMATED COST

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=> 11 or 12 Or 13 or 14 MISSING OPERATOR L2 OR

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> 11 or 12 or 13 or 14 4 L1 1 L2 4 L3 1 L4

L6 5 L1 OR L2 OR L3 OR L4

=> 15 L7 260 L5

=> 16 and 17

L8 1 L6 AND L7

=> d 18 ti fbib abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

TI Catalyst components for polymerization of $\alpha\text{-olefins}$ and manufacture of $\alpha\text{-olefin}$ polymers

AN 1995:220794 CAPLUS

DN 122:188427

TI Catalyst components for polymerization of $\alpha\text{-olefins}$ and manufacture of $\alpha\text{-olefin}$ polymers

IN Sugano, Toshihiko; Uchino, Hidefumi; Takahama, Tomohiko

PA Mitsubishi Petrochemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

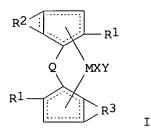
DT Patent LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 06239917	A2	19940830	JP 1993-30932	19930219
				JP 1993-30932	19930219

OS MARPAT 122:188427

GΙ



AB α -Olefins are polymerized with catalysts comprising transition metal compds. I [R1 = H, C1-6 hydrocarbyl, Si-containing C1-12 hydrocarbyl; R2-3 = C3-30 hydrocarbylene; 1 of R2-3 have condensed ring; M = Group IVB-VIB transition metal; Q = C1-20 hydrocarbylene, (C1-20 hydrocarbyl-containing) silylene, (C1-20 hydrocarbyl-containing) germylene; X, Y = H, halo, (O-containing)

C1-20 hydrocarbyl] and another component chosen from Al oxy compds., Lewis acids, and ionic compds. reactive with I. Thus, propylene was prepolymd. with methylalumoxane and dimethylsilylenebis [4-(5,9,9-trimethyltricyclo[6.1.1.0]deca-4,6-dien-3-yl)] zirconium dichloride (II; preparation given) at 20° and 1 kg/cm2G for 15 min and polymerized at 40° and 7 kg/cm2G for 2 h to give a polymer with catalyst activity 10.1 + 104 g-polymer/g-II, number average mol. weight 24.5 + 104, polydispersity 2.21, and m.p. 154.5° .

=> d 16 1-5 ti fbib abs

- L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
- TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone
- AN 2002:675080 CAPLUS
- DN 138:4699
- TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone
- AU Campos, Kevin R.; Lee, Sandra; Journet, Michel; Kowal, Jason J.; Cai, Dongwei; Larsen, Robert D.; Reider, Paul J.
- CS Department of Process Research, Merck Research Laboratories, Rahway, NJ, 07065, USA
- SO Tetrahedron Letters (2002), 43(39), 6957-6959 CODEN: TELEAY; ISSN: 0040-4039
- PB Elsevier Science Ltd.
- DT Journal
- LA English
- OS CASREACT 138:4699

GI

AB A general method for the monoalkylation of (+)-nopinone (I) was developed for a variety of carbon and heteroatom electrophiles to afford the kinetically controlled product II with high diastereoselectivity (98% d.e.) and excellent yield (75-90%).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for producing bicyclic amino alcohol from (+)-nopinone

AN 2001:31442 CAPLUS

DN 134:101033

TI Process for producing bicyclic amino alcohol from (+)-nopinone

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT	NO.			KIN		DATE						ON			I	DATE	
ΡI	WO 2001	0023	 34		A1			0111	1							2	20000	626
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB	, B	G,	BR,	BY,	BZ,	CA,	CH,	CN,
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			-				•	-						74			19990	702
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										US	200	2-1	1967	0		A3 2	20020	102

OS CASREACT 134:101033; MARPAT 134:101033

The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with AB XCH2CO2R1 (X = halo; R1 = alkyl) in the presence of an additive and a base, followed by conversion of the product into an oxime, and reduction of the oxime. I is then converted in several steps to a known PGD2 antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN L6

Process for producing benzothiophenecarboxylic acid amide derivatives ΤI

AN 1999:640851 CAPLUS

DN 131:243177

Process for producing benzothiophenecarboxylic acid amide derivatives TI

Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Okada, Tetsuo; Kakinuma, Makoto IN

Shionogi & Co., Ltd., Japan PCT Int. Appl., 36 pp. PA

SO

CODEN: PIXXD2

DTPatent

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P AIN	. CNT PAT	ENT :	NO.			KINI		DATE			APE	PLIC	CAT	I NOI	.OV		I	DATE	
ΡI	WO	9950	 261							,	 WO	199	 99-0	JP16:	 17		1	L9990	330
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														SG,	SI,	SK,	SL,	TJ,	TM,
								UZ,											
		RW:																DE,	
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			CI,	CM,	GA,	GN,	GW,	ML,	MR,						_				001
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	BD.	9909	286			Α		2000	1205		RD	190	99-1	9286	± <i>1</i>			19990	1330
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	EP	1069	123			Α1		2001	0117		FP	199	99-	9107	65			19990	
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			IE,	-	,	•	•	•	•	•		•	•	•	,	•			
											JP	199	98-	8731	1		Α :	19980	331
											WO	199	99-	JP16	17		W :	19990	330
	TR	2000	0284	2		Т2		2001	0122		TR	200	00-	2000	0284	2		19990	330
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TR	200101802	Т2	20011022	TR	2001-200101802		19990330
				JР	1998-87311	Α	19980331
RU	2185380	C1	20020720	RU	2000-127103		19990330
				JΡ	1998-87311	Α	19980331
				WO	1999-JP1617	W	19990330
JΡ	3340428	B2	20021105	JP	2000-541165		19990330
				JΡ	1998-87311	Α	19980331
				WO	1999-JP1617	W	19990330
ΑT	282035	E	20041115	ΑT	1999-910765		19990330
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				WO	1999-JP1617	W	19990330
ES	2233027	T3	20050601	ES	1999-910765		19990330
					1998-87311	Α	19980331
ZA	2000004721	Α	20010308	ZA	2000-4721		20000907
					1998-87311	Α	19980331
МО	2000004918	Α	20001128	NO	2000-4918		20000929
					1998-87311	Α	19980331
					1999-JP1617	W	19990330
US	6399788	B1	20020604		2000-647353		20000929
					1998-87311	Α	19980331
					1999-JP1617	W	19990330
JP	2002193898	A2	20020710		2001-353060		20011119
	3629460	B2	20050316				
				JΡ	1998-87311	Α	19980331
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US	2002115871	A1	20020822		2002-133353		20020429
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US	6455741	В2	20020924		2002-133319		20020429
	2002156297	A1	20021024				
				JP	1998-87311	Α	19980331
					1999-JP1617	W	19990330
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US	6465662	B2	20021015		2002-133313		20020429
	2002161242	A1	20021031				-
				JР	1998-87311	Α	19980331
					1999-JP1617	W	19990330
					2000-647353	A 3	20000929
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CASREACT 131:243177; MARPAT 131:243177

OS

GI

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Disclosed are a process for producing 7-[(1R,2R,3S,5S)-2(hydroxybenzo[b]thiophen-3-ylcarbonylamino)-10-norpinan-3-yl]-5-heptenoic
acid compds. having PGD2 antagonism represented by formula (I; R = H,
HO-protecting group; X = H, alkyl; the double bond is either in E or Z
configuration), pharmaceutically acceptable salts thereof or hydrates of
the same characterized by reacting an amino alc., namely
[(1R,2R,3R,5S)-2-amino-10-norpinan-3-yl]ethanol, of formula (II) or its
salt with a hydroxybenzo[b]thiophene-3-carboxylic acid compound of formula
(III) or its reactive derivative, oxidizing the obtained product in the
presence of 2,2,6,6,-tetramethylpiperidine-1-oxyls, and then reacting with
an ylide under Wittig reaction conditions optionally followed by
deblocking. The amino alc. (II) is prepared by reduction of oximes (IV; R2 =
alkyl; R3 = H, alkyl). I are useful for the treatment of diseases related
to failure of mast cell function caused by over-production of PGD and are used
as remedies for systemic mast cell disease or mast cell activation

disorder, allergic rhinitis, allergic conjunctivitis, nettle rash (urticaria), ischemic reperfusion disorder, and atopic dermatitis and as bronchodilators, antiasthmatics, and antiinflammatory agents (no data). II.PhCO2H (preparation given) was suspended in water, treated with 1 N aqueous

and extracted with EtOAc to remove precipitated benzoic acid. The organic layer was

washed with water and the combined aqueous layer was treated with 4 N aqueous NaOH $\,$

under ice-cooling and then dropwise with a solution of 5- (benzenesulfonyloxy)benzo[b]thiophene-3-carbonyl chloride in THF over 15 min and stirred at the same temperature for 15 h to give 95.6% intermediate (V; R1 = CH2OH). The latter alc. was dissolved in EtOAc, treated with TEMPO and KBr and then dropwise with a solution of 0.41 N aqueous NaOCl (adjusted to

9.5 with NaHCO3) at -1° to 6° over 3 min, and stirred at the same temperature for 10 min to give 100% aldehyde (V; R1 = CHO) which underwent Wittig reaction with 4-carboxybutyltriphenylphosphonium bromide in the presence of Me3COK in THF under ice-cooling for 2 h followed by treatment with a mixture of 4 N aqueous NaOH and DMSO at 55° for 2 h to give II 76.0% (OR = 5-OH, X = H).

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Catalyst components for polymerization of α -olefins and manufacture of α -olefin polymers
- AN 1995:220794 CAPLUS
- DN 122:188427

HCl,

рΗ

- TI Catalyst components for polymerization of $\alpha\text{-olefins}$ and manufacture of $\alpha\text{-olefin}$ polymers
- IN Sugano, Toshihiko; Uchino, Hidefumi; Takahama, Tomohiko
- PA Mitsubishi Petrochemical Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 11 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 06239917	A2	19940830	JP 1993-30932	19930219
				JP 1993-30932	19930219
OS	MARPAT 122:188427				

OS MARPAT 122:188427

GΙ

AB α -Olefins are polymerized with catalysts comprising transition metal compds. I [R1 = H, C1-6 hydrocarbyl, Si-containing C1-12 hydrocarbyl; R2-3 = C3-30 hydrocarbylene; 1 of R2-3 have condensed ring; M = Group IVB-VIB

transition metal; Q = C1-20 hydrocarbylene, (C1-20 hydrocarbyl-containing) silylene, (C1-20 hydrocarbyl-containing) germylene; X, Y = H, halo, (O-containing)

C1-20 hydrocarbyl] and another component chosen from Al oxy compds., Lewis acids, and ionic compds. reactive with I. Thus, propylene was prepolymd. with methylalumoxane and dimethylsilylenebis [4-(5,9,9-trimethyltricyclo[6.1.1.0]deca-4,6-dien-3-yl)]zirconium dichloride (II; preparation given) at 20° and 1 kg/cm2G for 15 min and polymerized at 40° and 7 kg/cm2G for 2 h to give a polymer with catalyst activity <math>10.1 + 104 g-polymer/g-II, number average mol. weight 24.5 + 104, polydispersity 2.21, and m.p. 154.5° .

- L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2
- AN 1990:179482 CAPLUS
- DN 112:179482
- TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2
- AU Seno, Kaoru; Hagishita, Sanji
- CS Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, 553, Japan
- SO Chemical & Pharmaceutical Bulletin (1989), 37(6), 1524-33 CODEN: CPBTAL; ISSN: 0009-2363
- DT Journal
- LA English
- OS CASREACT 112:179482

GI

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB Four stereoisomers of the title compds., I (1R,2S,3S,5S; 1R,2R,3S,5S; 1R,2S,3R,5S) and II (2R,3R), were synthesized from (-)-myrtenol and (+)-nopinone. The (1R,2R,3S,5S)-isomer of I had the most potent inhibitory activity against platelet aggregation and did not show partial agonist activity (shape change of platelets). The antipode I (1S,2S,3R,5R) and derivs. III (R = Me, PhCH2, biphenylyl, 2-naphthyl, p-O2NC6H4, p-MeOC6H4, PhCH2CH2CH2, PhCH2CH2, p-ClC6H4, o-ClC6H4, m-ClC6H4, p-EtC6H4, p-MeC6H4, p-FC6H4, p-HOC6H4) were also prepared The one-carbon homologated compound IV was also prepared The inhibitory activities of these compds. against platelet aggregation were measured.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	26.10	55.97
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-4.50	-4.50

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http://www.cas.org/ONLINE/UG/regprops.html

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=> e N, N-dimethylpropyleneurea/cn
                   N, N-DIMETHYLPROPYLENEDIAMINE DIHYDROCHLORIDE/CN
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E2
             1
                   N, N-DIMETHYLPROPYLENEDIAMINE-EPICHLOROHYDRIN COPOLYMER/CN
E3
             0 --> N, N-DIMETHYLPROPYLENEUREA/CN
                   N, N-DIMETHYLPROPYNAL/CN
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E5
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                   N, N-DIMETHYLPROPYNAMIDE/CN
E6
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                   N, N-DIMETHYLPUTRESCINE/CN
E12
             1
                   N, N-DIMETHYLPYRAZINECARBOXAMIDE/CN
=> file caplus
COST IN U.S. DOLLARS
                                                  SINCE FILE
                                                                   TOTAL
                                                        ENTRY
                                                                 SESSION
FULL ESTIMATED COST
                                                         0.88
                                                                   56.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
                                                  SINCE FILE
                                                                   TOTAL
                                                        ENTRY
                                                                 SESSION
CA SUBSCRIBER PRICE
                                                         0.00
                                                                   -4.50
```

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FILE COVERS 1907 - 15 Jun 2006 VOL 144 ISS 25 FILE LAST UPDATED: 13 Jun 2006 (20060613/ED)

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http://www.cas.org/infopolicy.html

=> dimethylpropyleneurea L9 138 DIMETHYLPROPYLENEUREA

=> alkylation
96014 ALKYLATION
2535 ALKYLATIONS
L10 96558 ALKYLATION
(ALKYLATION OR ALKYLATIONS)

=> 19 and 110 L11 6 L9 AND L10

=> d 111 1-6 ti

- L11 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Alkylation of asymmetric phosphonamidates (part I)
- L11 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Synthesis and structure of functionalized cyclododecadiynes and -dienes
- L11 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
- TI A reductive homo-coupling polymerization of aromatic diisocyanates promoted by samarium iodide
- L11 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Use of N,N-dimethylpropyleneurea (DMPU) as solvent in the efficient preparation of enantiomerically pure secondary amines
- L11 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
- TI The ratio of induced recessive lethals to ring-X loss has prognostic value in terms of functionality of chemical mutagens in Drosophila melanogaster
- L11 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
- Stereoselective alkylation at $C(\alpha)$ of serine, glyceric acid, threonine, and tartaric acid involving heterocyclic enolates with exocyclic double bonds

=> DMPU

L12 285 DMPU

=> 110 and 112

L13 43 L10 AND L12

=> 110(1)112

L14 31 L10(L)L12

=> d 114 21-31 ti

- L14 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Preparation of cyclic sulfamides used for the synthesis of HIV protease inhibitors via cyclization of protected linear diamino diols with SO2 precursors followed by alkylation
- L14 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI A new synthesis of (\pm) -phoracantholide, (\pm) -dihydrorecifeiolide, and (\pm) -muscone via α -nitro ketones
- L14 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI The synthesis of deuterated 4-2H- α -farnesene and 1-2H- α -farnesene
- L14 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Enantioselective synthesis of 2-alkyl substituted cysteines
- L14 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI C-alkylation of sarcosine residues in cyclic tetrapeptides via lithium enolates
- L14 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI C-Alkylation of peptides through polylithiated and lithium chloride solvated derivatives containing sarcosine lithium enolate units
- L14 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Replacement of carcinogenic solvent HMPA by DMI in insect sex pheromone synthesis

- L14 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI trans-Disubstituted cyclohexadienes via sequential addition of a carbon nucleophile and an electrophile to (n6-benzene)tricarbonylchromium: scope of carbon electrophiles
- L14 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Mono- and dialkylation of derivatives of (1R,2S)-2hydroxycyclopentanecarboxylic acid and -cyclohexanecarboxylic acid via bicyclic dioxanones: selective generation of three contiguous stereogenic centers on a cyclohexane ring
- L14 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI 1,3-Dimethyl-2-oxohexahydropyrimidine (DMPU): an alternative to HMPT in moth sex pheromone synthesis
- L14 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Stereoselective alkylation at $C(\alpha)$ of serine, glyceric acid, threonine, and tartaric acid involving heterocyclic enolates with exocyclic double bonds

=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	16.06	72.91
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	\mathtt{TOTAL}
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-4.50

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:47:47 ON 15 JUN 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * * * SESSION RESUMED IN FILE 'CAPLUS' AT 08:11:40 ON 15 JUN 2006 FILE 'CAPLUS' ENTERED AT 08:11:40 ON 15 JUN 2006 COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS FULL ESTIMATED COST	SINCE FILE ENTRY 16.06	TOTAL SESSION 72.91
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) CA SUBSCRIBER PRICE	SINCE FILE ENTRY 0.00	TOTAL SESSION -4.50
=> file reg COST IN U.S. DOLLARS FULL ESTIMATED COST	SINCE FILE ENTRY 16.06	TOTAL SESSION 72.91
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5 DICTIONARY FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

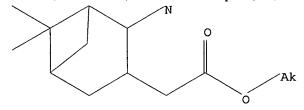
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

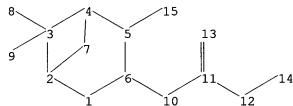
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10784930\10784930 compd (IV).str



=>



chain nodes : 8 9 10 11 12 13 14 ring nodes : 4 5 1 2 3 6 chain bonds : 3-8 3-9 5-15 6-10 10-11 11-12 11-13 12-14 ring bonds : 1-2 1-6 2-3 2-7 4-5 4-7 3-4 exact/norm bonds : 1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-15 11-12 11-13 12-14 exact bonds : 3-8 3-9 6-10 10-11

Hydrogen count :

1:>= minimum 2 5:>= minimum 1 6:>= minimum 1 10:>= minimum 2

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L15 STRUCTURE UPLOADED

=> d 115

L15 HAS NO ANSWERS

L15

STR

N O Ak

Structure attributes must be viewed using STN Express query preparation.

=> search 115 sss sam

SAMPLE SEARCH INITIATED 08:12:18 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 8 TO 329

PROJECTED ANSWERS: 0 TO 0

L16 0 SEA SSS SAM L15

=> search 115 sss full

FULL SEARCH INITIATED 08:12:28 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 290 TO ITERATE

100.0% PROCESSED 290 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L17 0 SEA SSS FUL L15

=>

 $\begin{tabular}{ll} Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10784930\10784930 correct compd (IV) .str \end{tabular}$

chain nodes :
8 9 10 11 12 13

ring nodes : 1 2 3 4 5 6 7

chain bonds :

3-8 3-9 5-13 6-10 10-11 11-12

ring bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-13 11-12

exact bonds :

3-8 3-9 6-10 10-11

Hydrogen count :

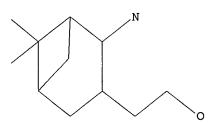
1:>= minimum 2 5:>= minimum 1 6:>= minimum 1 10:>= minimum 2 11:>= minimum 2

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS

L18 STRUCTURE UPLOADED

=> d 118 L18 HAS NO ANSWERS L18 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 118 sss sam

SAMPLE SEARCH INITIATED 08:15:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 3 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 8 TO 329
PROJECTED ANSWERS: 3 TO 163

L19 3 SEA SSS SAM L18

=> dscan

0 DSCAN

L20

0 DSCAN

=> d scan

L20 HAS NO ANSWERS

=> d scan 119

L19 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Bicyclo[3.1.1]heptane-3-ethanol, 2-amino-6,6-dimethyl-, (1R,2R,3S,5S)-(9CI)

MF C11 H21 N O

CI COM

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L19 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Benzo[b]thiophene-3-carboxamide, N-[(1R,2R,3R,5S)-3-(2-hydroxyethyl)-6,6dimethylbicyclo[3.1.1]hept-2-yl]-5-[(phenylsulfonyl)oxy]- (9CI)
MF C26 H29 N O5 S2

Absolute stereochemistry. Rotation (+).

L19 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Benzenesulfonamide, N-[3-(2-hydroxyethyl)-6,6-dimethylbicyclo[3.1.1]hept-2-yl]-, [1R- $(1\alpha, 2\beta, 3\alpha, 5\alpha)$]- (9CI)

MF C17 H25 N O3 S

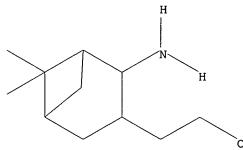
Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10784930\10784930 NH2 fixed compd (IV) .str



8 3 15 15 15 15 15 10 11 12

chain nodes :

8 9 10 11 12 13 15 16

ring nodes :

1 2 3 4 5 6 7

chain bonds :

3-8 3-9 5-13 6-10 10-11 11-12 13-15 13-16

ring bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-13 11-12

exact bonds :

3-8 3-9 6-10 10-11 13-15 13-16

Hydrogen count :

1:>= minimum 2 5:>= minimum 1 6:>= minimum 1 10:>= minimum 2 11:>= minimum 2

13:>= minimum 2

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 15:CLASS 16:CLASS

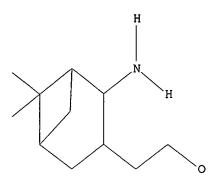
L21 STRUCTURE UPLOADED

=> d 121

L21 HAS NO ANSWERS

L21

STR



Structure attributes must be viewed using STN Express query preparation.

=> search 121 sss sam

SAMPLE SEARCH INITIATED 08:18:54 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 8 TO 329 PROJECTED ANSWERS: 1 TO 80

L22 1 SEA SSS SAM L21

=> d scan

L22 1 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

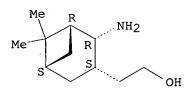
IN Bicyclo[3.1.1]heptane-3-ethanol, 2-amino-6,6-dimethyl-, (1R,2R,3S,5S)-

(9CI)

MF C11 H21 N O

CI COM

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

```
=> e Bicyclo(1.1.1)heptane-3-ethanol, 2-amino-6,6-dimethyl-,/cn
El 2 BICYCLO(1.1.1)DISILOXANE, PHOSPHINE DERIV./CN
E2 1 BICYCLO(1.1.1)DISILOXANE-1,3-DIYLBIS(OXY)/CN
E3 0 --> BICYCLO(1.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-,/CN
E4 1 BICYCLO(1.1.1)PENT-1-ENE/CN
```

```
BICYCLO(1.1.1) PENT-1-ENE, 2,3-DICHLORO-/CN
E5
             1
                    BICYCLO(1.1.1) PENT-1-ENE, 4-METHYLENE-/CN
F.6
             1
                    BICYCLO(1.1.1) PENT-1-YL/CN
E7
             1
                    BICYCLO(1.1.1) PENT-1-YL RADICAL/CN
E8
             1
                    BICYCLO(1.1.1) PENT-1-YL, 3-(1,1-DIMETHYLETHYL)-/CN
E9
                    BICYCLO(1.1.1) PENT-1-YL, 3-(DIMETHYLAMINO)-/CN
             1
E10
                    BICYCLO(1.1.1) PENT-1-YL, 3-(DIPHENYLMETHYLENE)-/CN
BICYCLO(1.1.1) PENT-1-YL, 3-(METHOXYCARBONYL)-/CN
             1
E11
E12
             1
=> e Bicyclo(3.1.1)heptane-3-ethanol, 2-amino-6,6-dimethyl-,/cn
                    BICYCLO(3.1.1) HEPTANE-3-ETHANAMINE, N-(2,2-DIMETHYLPROPYL)-.
E1
                    ALPHA., 2, 6, 6-TETRAMETHYL-, (1S-(1A, 2B, 3A(S*
                    ),5A))-/CN
                    BICYCLO(3.1.1) HEPTANE-3-ETHANAMINE, N-(2,2-DIMETHYLPROPYL)-.
E2
             1
                    ALPHA., 2, 6, 6-TETRAMETHYL-, LITHIUM SALT, (1S-(1A, 2.BET
                    A., 3A(S*), 5A) -/CN
E3
              0 --> BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-,/CN
F.4
             1
                    BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
                    2R, 3R, 5S) - /CN
                    BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
             1
E5
                    2R, 3R, 5S) -, BENZOATE (SALT)/CN
             1
                    BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6, 6-DIMETHYL-, (1R,
E6
                    2R, 3S, 5S) - /CN
F.7
             1
                    BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
                    2R, 3S, 5S) -, BENZOATE (SALT)/CN
             1
                    BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6, 6-DIMETHYL-, (1R,
E8
                    2S, 3S, 5S) - /CN
F.9
             1
                    BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
                    2S, 3S, 5S) -, BENZOATE (SALT)/CN
              1
                    BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R-
E10
                    (1A, 2B, 3A, 5A)) - /CN
E11
              1
                    BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R-
                    (1A, 2B, 3A, 5A)) -, BENZOATE (SALT)/CN
E12
              1
                    BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 6,6-DIMETHYL-A-PHENYL
                    -, (3(S)-(1A,3B,5A))-/CN
=> ee4
L23
             2 EE4
=> d 123
L23 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2006 ACS on STN
RN
     213888-43-8 REGISTRY
ED
     Entered STN: 08 Nov 1998
CN
     DNA (human clone EE4 sEST (secreted expressed sequence tag)) (9CI)
     (CA INDEX NAME)
FS
     NUCLEIC ACID SEQUENCE
MF
     Unspecified
CI
     MAN
SR
     CA
     STN Files:
                   CA, CAPLUS, USPATFULL
LC
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
                1 REFERENCES IN FILE CA (1907 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
=> e4
L24
              1 "BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2R,
                3R, 5S) - "/CN
```

```
=> d 124
```

L24 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN 126264-12-8 REGISTRY RN Entered STN: 06 Apr 1990 ED Bicyclo[3.1.1]heptane-3-ethanol, 2-amino-6,6-dimethyl-, CN (1R,2R,3R,5S) - (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Bicyclo[3.1.1]heptane-3-ethanol, 2-amino-6,6-dimethyl-, $[1R-(1\alpha,2\beta,3\alpha,5\alpha)]-$ FS STEREOSEARCH C11 H21 N O MF COM CI SR CA LCSTN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPAT7, USPATFULL (*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE) 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e5L25 1 "BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2R, 3R,5S)-, BENZOATE (SALT)"/CN => e6L26 1 "BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2R, 3s, 5s) - "/CN=> e7 1 "BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2R, L27 3S,5S)-, BENZOATE (SALT)"/CN => e8 1 "BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2S, L28 3s, 5s) - "/CN=> e91 "BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2S, L29 3S,5S)-, BENZOATE (SALT)"/CN => e10 L30 1 "BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R-(1. ALPHA., 2B, 3A, 5A))-"/CN=> e11L31 1 "BICYCLO(3.1.1) HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R-(1.

ALPHA., 2B, 3A, 5A))-, BENZOATE (SALT)"/CN

=> file caplus
COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL
ENTRY SESSION
SINCE FILE TOTAL
ENTRY SESSION

0.00

-4.50

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=> 125 or 126 or 127 or 128 or 129 or 130 or 131

4 L25

3 L26

1 L27

2 L28

1 L29

5 L30

4 L31

L32 6 L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31

=> d 132 1-6 ti fbib abs

CA SUBSCRIBER PRICE

L32 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for producing bicyclic amino alcohol from (+)-nopinone

AN 2001:31442 CAPLUS

DN 134:101033

TI Process for producing bicyclic amino alcohol from (+)-nopinone

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PAT	CENT	NO.			KIND DATE				APPLICATION NO.						DATE			
							_												
PI	WO 2001002334					A1		20010111		I	WO 2	000-		20000626					
		W:	ΑE,	ΑG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
			CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	
			HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	

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OS CASREACT 134:101033; MARPAT 134:101033

GΙ

AB The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with XCH2CO2R1 (X = halo; R1 = alkyl) in the presence of an additive and a base, followed by conversion of the product into an oxime, and reduction of the oxime. I is then converted in several steps to a known PGD2 antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Anti-itching agents containing PGD2 antagonists

AN 1999:783967 CAPLUS

DN 132:26854

TI Anti-itching agents containing PGD2 antagonists

IN Arimura, Akinori

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.					KIND DATE				APPLICATION NO.						DATE		
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PI	WO 9962555				A1		1999	1209	1	WO 1	999-	JP28	20		19	9990	528	
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		RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,

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     CA 2333868
                                                                   19990528
                          AA
                                            JP 1998-154332
                                                                  19980603
                                            WO 1999-JP2820
                                                                   19990528
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                                19991220
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                                            WO 1999-JP2820
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                                            EP 1999-922538
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                                                                A 19980603
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                                                                A1 20001113
                                            US 2000-700283
                                            US 2002-127442
    US 2003027854
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                                                                    20020423
                                            JP 1998-154332
                                                                   19980603
                                            WO 1999-JP2820
                                                                W 19990528
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                                                                A1 20010618
    MARPAT 132:26854
     Disclosed are PGD2 antagonists, e.g., (5Z)-7-[(1R,2R,3S,5S)-2-(5-R)]
     hydroxybenzo[b]thiophene-3-yl-carbonylamino)-6,6-
     dimethylbicyclo[3.1.1]hept-3-yl]-5-heptenoic acid (I), and
     pharmaceutically acceptable salts thereof or hydrates of the same which
     have an excellent effect of preventing or treating itching and therefore
     are useful as drugs. The PGD2 antagonist I showed inhibitory effect on
     scratching behavior of C57BL mice stimulated by compound 48/80 or antigen.
     Also, a tablet containing I 40, hydroxypropylcellulose 3.6, Mg stearate 0.4,
     corn starch 18, and lactose 58 mg was prepared
RE.CNT 5
              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
     Process for producing benzothiophenecarboxylic acid amide derivatives
     1999:640851 CAPLUS
     131:243177
     Process for producing benzothiophenecarboxylic acid amide derivatives
     Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Okada, Tetsuo; Kakinuma, Makoto
     Shionogi & Co., Ltd., Japan
     PCT Int. Appl., 36 pp.
     CODEN: PIXXD2
     Patent
     Japanese
FAN.CNT 1
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                   DATE
     PATENT NO.
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                                19991007
                                                                   19990330
     WO 9950261
                          A1
                                         WO 1999-JP1617
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             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,

TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW

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וות	99290	602			A1		1999	1018			1999-2					19990		
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										υS	2000-	64/35	3		AЗ	20000	1929	

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Disclosed are a process for producing 7-[(1R,2R,3S,5S)-2-AB (hydroxybenzo[b]thiophen-3-ylcarbonylamino)-10-norpinan-3-yl]-5-heptenoic acid compds. having PGD2 antagonism represented by formula (I; R = H, HO-protecting group; X = H, alkyl; the double bond is either in E or Z configuration), pharmaceutically acceptable salts thereof or hydrates of the same characterized by reacting an amino alc., namely [(1R,2R,3R,5S)-2-amino-10-norpinan-3-yl]ethanol, of formula (II) or its salt with a hydroxybenzo[b]thiophene-3-carboxylic acid compound of formula (III) or its reactive derivative, oxidizing the obtained product in the presence of 2,2,6,6,-tetramethylpiperidine-1-oxyls, and then reacting with an ylide under Wittig reaction conditions optionally followed by deblocking. The amino alc. (II) is prepared by reduction of oximes (IV; R2 = alkyl; R3 = H, alkyl). I are useful for the treatment of diseases related to failure of mast cell function caused by over-production of PGD and are used as remedies for systemic mast cell disease or mast cell activation disorder, allergic rhinitis, allergic conjunctivitis, nettle rash (urticaria), ischemic reperfusion disorder, and atopic dermatitis and as bronchodilators, antiasthmatics, and antiinflammatory agents (no data). II.PhCO2H (preparation given) was suspended in water, treated with 1 N aqueous HCl,

and extracted with EtOAc to remove precipitated benzoic acid. The organic layer was

washed with water and the combined aqueous layer was treated with 4 N aqueous NaOH $\dot{}$

under ice-cooling and then dropwise with a solution of 5- (benzenesulfonyloxy)benzo[b]thiophene-3-carbonyl chloride in THF over 15 min and stirred at the same temperature for 15 h to give 95.6% intermediate (V; R1 = CH2OH). The latter alc. was dissolved in EtOAc, treated with TEMPO and KBr and then dropwise with a solution of 0.41 N aqueous NaOCl (adjusted to

рΗ

9.5 with NaHCO3) at -1° to 6° over 3 min, and stirred at the same temperature for 10 min to give 100% aldehyde (V; R1 = CHO) which underwent Wittig reaction with 4-carboxybutyltriphenylphosphonium bromide in the presence of Me3COK in THF under ice-cooling for 2 h followed by treatment with a mixture of 4 N aqueous NaOH and DMSO at 55 $^\circ$ for 2 h to give II 76.0% (OR = 5-OH, X = H).

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for producing 5-hydroxybenzo[b]thiophene-3-carboxylic acid derivatives

AN 1999:640850 CAPLUS

DN 131:243176

TI Process for producing 5-hydroxybenzo[b]thiophene-3-carboxylic acid derivatives

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 40 pp. CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

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		RW:	GH,	GM,	KE,	LS,	MW, SD,	SL,	SZ, UG	, ZW,	ΑT,	BE,	CH,	CY	, DE,	DK,
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							GW, ML,					,	,		,,	,
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			_			2000-541164	А3	19990330
C	:N	1431208	Α	20030723		2003-103533	_	20030121
					JP	1998-85819	Α	19980331

OS CASREACT 131:243176; MARPAT 131:243176

GI

AB Disclosed are a process for producing benzothiophenic acid derivs. (I; R = H, HO-protecting group) which are useful as starting materials for producing drugs and a process for producing 7-[(1R,2R,3S,5S)-2-(5hydroxybenzo[b]thiophen-3-ylcarbonylamino)-10-norpinan-3-yl]-5-heptenoic acid derivs. (II; R = H, HO-producing group; X = H, alkyl; the double bond is either in E or Z configuration), which are specific PGD2 antagonists, by using the above derivs. (I). II are useful for the treatment of diseases related to failure of mast cell function caused by over-production of PGD2 and are used as remedies for systemic mast cell disease or mast cell activation disorder, allergic rhinitis, allergic conjunctivitis, nettle rash (urticaria), ischemic reperfusion disorder, and atopic dermatitis and as bronchodilators, antiasthmatics, and antiinflammatory agents (no data). Thus, 4-mercaptophenol was alkylated by propargyl bromide in the presence of Et3N in EtOAc under ice-cooling for .apprx.2 h and then sulfonated by benzenesulfonyl chloride in the presence of Et3N under ice-cooling for .apprx.1.5 h and at room temperature for 30 min to give 100% crude 4-(propargylthio)phenyl benzenesulfonate. The latter compound was oxidized by 31% aqueous H2O2 and formic acid in MeOH for 3.5 h to give 100% crude 4-(propargylsulfinyl)phenyl benzenesulfonate which was dissolved in 1,2-dimethoxyethane and refluxed for 4 h, treated with water and p-MeC6H4SO3H.H2O, and refluxed for 2 h to give 100% crude 5-benzenesulfonyloxy-3-hydroxymethylbenzo[b]thiophene. The latter compound was oxidized by TEMPO and an aqueous solution of 0.81 N NaOCl (adjusted to pH

by adding 1 N H2SO4) at -1° to 8° for 40 min and then with 1

N aqueous NaOCl and 31% aqueous H2O2 at room temperature for 2 h to give 51.7% 5-(benzenesulfonyloxy)benzo[b]thiophene-3-carboxylic acid (I; R = benzenesulfonyl) which was refluxed with SOCl2 in the presence of one drop of DMF for 1.5 h to give 5-(benzenesulfonyloxy)benzo[b]thiophene-3-carbonyl chloride. This compound was condensed with 2-[(1R,2R,3R,5S)-2-amino-10-norpinan-3-yl]ethanol in aqueous THF containing NaOH under ice-cooling for 1 h to give 95.6% intermediate (III; R1 = CH2OH) which was oxidized by oxalyl chloride/DMSO in dimethoxyethane at -55° to -60° for 30 min to give 100% aldehyde (III; R1 = CHO) and underwent Wittig reaction with 4-carboxybutyltriphenylphosphonium bromide in the presence of Me3COK in THF under ice-cooling for 2 h followed by treatment with a mixture of 4 N aqueous NaOH and DMSO at 55° for 2 h to give II 76.0% (R = X = H).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI preparation of benzothiophenecarboxamide derivatives as PGD2 antagonists

AN 1998:402435 CAPLUS

DN 129:81869

. . . .

TI preparation of benzothiophenecarboxamide derivatives as PGD2 antagonists

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Arimura, Akinori

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DT Patent LA English

FAN.CNT 1

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JP 1996-333495 A 19961213 JP 1997-254001 A 19970919 WO 1997-JP4527 W 19971210 CN 1445225 A 20031001 CN 2002-122760 20020611 JP 1996-333495 A 19961213 JP 1997-254001 A 19970919

OS MARPAT 129:81869

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- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- The title compds. I and II (R = H, alkyl, alkoxy, halo, hydroxy, acyloxy. (Un) substituted arylsulfonyloxy; X = H, alkyl; the chain double bond may be E or Z) and their pharmaceutically acceptable salts were prepared as agents having PGD2-antagonistic activities, inhibitory activities against infiltration of eosinophils, and being useful as a drug for treating diseases, such as systemic mastocytosis and disorder of systemic mast cell activation, as well as tracheal contraction, asthma, allergic rhinitis, allergic conjunctivitis, urticaria, ischemic reperfusion injury, inflammation and atopic dermatitis. Thus, the bicycloheptyl heptenoate III was treated with 5-acetoxybenzo[b]thiophene-3-carbonyl chloride followed by hydrolysis to give the benzo[b]thiophenylcarbonylamino bicycloheptylheptenoate IV (R = H, Na). The binding IC50 of IV (R = H) with PGD2 receptor was 0.4 nM.
- RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L32 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2
- AN 1990:179482 CAPLUS
- DN 112:179482
- TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2
- AU Seno, Kaoru; Hagishita, Sanji
- CS Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, 553, Japan
- SO Chemical & Pharmaceutical Bulletin (1989), 37(6), 1524-33 CODEN: CPBTAL; ISSN: 0009-2363
- DT Journal
- LA English
- OS CASREACT 112:179482

GT

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB Four stereoisomers of the title compds., I (1R,2S,3S,5S; 1R,2R,3S,5S; 1R,2S,3R,5S) and II (2R,3R), were synthesized from (-)-myrtenol and (+)-nopinone. The (1R,2R,3S,5S)-isomer of I had the most potent inhibitory activity against platelet aggregation and did not show partial agonist activity (shape change of platelets). The antipode I (1S,2S,3R,5R) and derivs. III (R = Me, PhCH2, biphenylyl, 2-naphthyl, p-O2NC6H4, p-MeOC6H4, PhCH2CH2CH2, PhCH2CH2, p-ClC6H4, o-ClC6H4, m-ClC6H4, p-EtC6H4, p-MeC6H4, p-FC6H4, p-HOC6H4) were also prepared The one-carbon homologated compound IV was also prepared The inhibitory activities of these compds. against platelet aggregation were measured.

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=> logoff hold

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FULL ESTIMATED COST 28.86 328.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

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PASSWORD:

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FULL ESTIMATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 6 FEB 22 Updates in EPFULL; IPC 8 enhancements added

NEWS 7 FEB 27 New STN AnaVist pricing effective March 1, 2006 NEWS 8 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes NEWS 9 MAR 22 EMBASE is now updated on a daily basis NEWS 10 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL NEWS 11 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL NEWS 12 APR 04 STN AnaVist \$500 visualization usage credit offered NEWS 13 APR 12 LINSPEC, learning database for INSPEC, reloaded and enhanced NEWS 14 APR 12 Improved structure highlighting in FQHIT and QHIT display in MARPAT NEWS 15 APR 12 Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected NEWS 16 MAY 10 CA/Caplus enhanced with 1900-1906 U.S. patent records NEWS 17 MAY 11 KOREAPAT updates resume NEWS 18 MAY 19 Derwent World Patents Index to be reloaded and enhanced NEWS 19 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2 The F-Term thesaurus is now available in CA/CAplus NEWS 20 MAY 30 NEWS 21 JUN 02 The first reclassification of IPC codes now complete in INPADOC FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, NEWS EXPRESS CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT

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=> aluminum hydride

926666 ALUMINUM

297 ALUMINUMS

926727 ALUMINUM

(ALUMINUM OR ALUMINUMS)

100989 HYDRIDE

24196 HYDRIDES

108855 HYDRIDE

(HYDRIDE OR HYDRIDES)

8892 ALUMINUM HYDRIDE

(ALUMINUM(W) HYDRIDE)

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY SESSION

6.20 6.62

SESSION WILL BE HELD FOR 60 MINUTES

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL ENTRY SESSION

FULL ESTIMATED COST

6.20

6.62

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL SESSION

FULL ESTIMATED COST

ENTRY 6.20

6.62

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

ETHYLETHYL) DIMETHYL-"/CN

```
=> e Silane,
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E1
                   SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)METHYL)TR
                   IMETHYL-/CN
E2
                   SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)METHYL)TR
                   IMETHYL-, (1S)-/CN
             0 --> SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)(1,1-
E3
                   DIMETHYLETHYL) DIMETHYL/CN
E4
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E5
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             1
                   THYL-/CN
E6
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                   SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)TRIME
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E7
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                   PHENYL) ETHYNYL) PHENYL) DIMETHYL-/CN
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L2

5 (4

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ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
L2
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RN
ED
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CN
     dimethylethyl)dimethyl- (9CI) (CA INDEX NAME)
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MF
SR
     CA
     STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
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  Me
              Si-Bu-t
              Me
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               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
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     106861-99-8 REGISTRY
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ED
     Entered STN: 28 Feb 1987
CN
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MF
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SR
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LC
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               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
=> e6
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L4
               L-, (1R)-"/CN
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=> d 14

4 4 4

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN RN 72453-33-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN Silane, [[(1R,5S)-6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]trimethyl-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

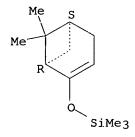
CN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl-, (1R)-

FS STEREOSEARCH

MF C12 H22 O Si

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL (*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e nopino	ne/cn	
E1	1	NOPINOL, 2-PHENYL-/CN
E2	1	NOPINOL, 2-PROPYL-/CN
E3	1>	NOPINONE/CN
E4	1	NOPINONE, A-BROMO-/CN
E5	1	NOPINONE, SEMICARBAZONE/CN
E6	1	NOPIRON WF/CN
E7	1	NOPLA KE 831/CN
E8	1	NOPOCURE 204, POLYMER WITH 1,6-HEXANEDIYL DI-2-PROPENOATE AN
		D 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)O
		XY) METHYL) PROPOXY) METHYL) -2-(((1-OXO-2-PROPENYL) OXY) METHYL) -
		1,3-PROPANEDIYL DI-2/CN
E9	1	NOPOCURE 204, POLYMER WITH 1,6-HEXANEDIYL DI-2-PROPENOATE, 2
		-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)
		METHYL) PROPOXY) METHYL) -2-(((1-OXO-2-PROPENYL) OXY) METHYL) -1,3
	_	-PROPANEDIYL DI-2-PR/CN
E10	1	NOPOCURE 204, POLYMER WITH 2,2-BIS(((1-OXO-2-PROPENYL)OXY)ME
		THYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND 2-((3-((1-0X0-2-PR
		OPENYL) OXY) -2, 2-BIS (((1-OXO-2-PROPENYL) OXY) METHYL) PROPOXY) ME
	_	THYL)-2-(((1-0X0-2-P/CN
E11	1	NOPOCURE 204, POLYMER WITH $2-((3-((1-0X0-2-PROPENYL)OXY)-2,2)$
		-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-OX
		O-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND
	_	A, A', . A/CN
E12	1	NOPOCURE 204, POLYMER WITH $2-((3-((1-0X0-2-PROPENYL)OXY)-2,2)$
		-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-OX
		O-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND

OXYBIS (METHYL-2, 1-E/CN

=> e3

a tr 4

L5 1 NOPINONE/CN

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 26.94 33.56

FULL ESTIMATED COST

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=> 12 or 13 or 14 1 L2 1 L3 7 L4

L6 9 L2 OR L3 OR L4

=> 15 L7 261 L5

=> (/prepl2 or 13 or 14)
MISSING TERM '(/PREPL2'

=> (12 or 13 or 14)/prep QUALIFICATION NOT VALID FOR L2 Field code qualifications can only be applied to text terms.

=> d l6 1-9 ti

- L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- ${\tt TI}$ A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone
- L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Process for producing bicyclic amino alcohol from (+)-nopinone
- L6 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs

L6 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Electronic absorption and circular dichroism spectra of the perturbed coplanar cis-diene chromophore in deuterium— and methyl-substituted 7,7-dimethylbicyclo[4.1.1]octa-2,4-dienes

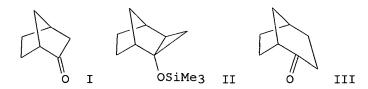
L6 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

- TI Highly efficient synthesis of (+)-nootkatone from (-)- β -pinene
- L6 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Nootkatone and vetivone compounds
- L6 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Highly efficient synthesis of (+)-nootkatone from (-)- β -pinene
- L6 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Synthetic study of (+)-nootkatone from (-)- β -pinene
- => 16 and 17

. . .

- L8 3 L6 AND L7
- => d 18 1-3 ti fbib abs
- L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs
- AN 1987:101776 CAPLUS
- DN 106:101776
- TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs
- AU Patel, Vijay; Ragauskas, Arthur J.; Stothers, J. B.
- CS Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.
- SO Canadian Journal of Chemistry (1986), 64(7), 1440-9 CODEN: CJCHAG; ISSN: 0008-4042
- DT Journal
- LA English
- OS CASREACT 106:101776

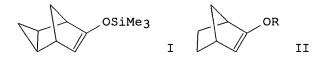
GΙ



AB Homoketonization of some readily prepared cyclopropoxides provides a new synthetic method for ring expansion of the [2.2.1] and [2.2.2] ring systems. Cyclopropanation of the trimethylsilyl enol ethers derived from a variety of polycyclic ketones affords the required cyclopropyl silyl ethers, which may be ketonized directly or hydrolyzed to the corresponding cyclopropanols before ketonization. The results for fourteen examples serve to define the scope of the ring expansion process, and the silyl enol ethers, cyclopropyl silyl ethers, and most of the corresponding cyclopropanols have been characterized by 13C NMR. The stereochem. of the ketonization leading to ring expansion was established by

deuterium-labeling expts. Thus, bicyclic ketone I was converted to the trimethylsilyl enol ether, which underwent cyclopropanation with CH2I2 in presence of a Zn-Ag couple and the resulting cyclopropyl derivative II was treated with NaOH/MeOH to give ring expansion product III.

- L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors
- AN 1986:69020 CAPLUS
- DN 104:69020
- TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors
- AU Ragauskas, Arthur J.; Stothers, J. B.
- CS Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.
- SO Canadian Journal of Chemistry (1985), 63(11), 2969-74 CODEN: CJCHAG; ISSN: 0008-4042
- DT Journal
- LA English
- OS CASREACT 104:69020
- GI



- AB Simmons-Smith cyclopropanation of silyl enol ethers, e.g. I, II (R = Me3Si, Me3CSiMe2), of polycyclic ketones was studied. Product compns. depended on concns. of reactants, and tert-butyldimethylsilyl derivs. gave ring-expanded allylic ethers more efficiently than did the corresponding trimethylsilyl derivs.
- L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Nootkatone and vetivone compounds
- AN 1980:639700 CAPLUS
- DN 93:239700
- TI Nootkatone and vetivone compounds
- IN Yanami, Tetsuji; Miyashita, Masaaki; Yoshikoshi, Akira; Akiyama, Takashi
- PA Hasegawa, T., Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 42 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 55045649	A2	19800331	JP 1978-119142	19780929
	JP 62009097	B4	19870226		
				JP 1978-119142 A	19780929

GΙ

AB Eighteen nootakone and vetivone compds. were prepared and used as perfumes. Thus, 42 mL MeCHO in EtOH was added to a mixture of 69 g (+)-nopinone and 33 g KOH in EtOH over 1 h at 1-5°, the mixture stirred 74 h at 5°, 133 g 4-MeC6H4SO3H added, and the whole stirred (isomerization) 3 h at room temperature to give 67.2 g (+)-3-trans-ethylidenenopinone (I).

=> logoff hold COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 49.81 FULL ESTIMATED COST 16.25 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -2.25 -2.25

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ENTRY SESSION
16.25 49.81

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE TOTAL
ENTRY SESSION
-2.25 -2.25

=> dissolving metal

79098 DISSOLVING 2 DISSOLVINGS

79099 DISSOLVING

(DISSOLVING OR DISSOLVINGS)

1652256 METAL 835648 METALS

2004917 METAL

(METAL OR METALS)

L9 609 DISSOLVING METAL

(DISSOLVING (W) METAL)

=> aluminum hydride

926666 ALUMINUM

297 ALUMINUMS

926727 ALUMINUM

(ALUMINUM OR ALUMINUMS)

100989 HYDRIDE

24196 HYDRIDES

.

```
108855 HYDRIDE
```

(HYDRIDE OR HYDRIDES)

L10 8892 ALUMINUM HYDRIDE

(ALUMINUM (W) HYDRIDE)

=> oxime

. . . .

43647 OXIME

15549 OXIMES

L11 48361 OXIME

(OXIME OR OXIMES)

=> 19 and 110

L12 1 L9 AND L10

=> 111 and 112

L13 0 L11 AND L12

=> d l12 ti fbib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

TI Synthesis of a new ketone and alcohol with C2 symmetry; (S,S,S,S)-tricyclo[6.3.0.03,7]undecan-2-one and (S,S,S,S)-tricyclo[6.3.0.03,7]undecan-2-ol

AN 1992:83264 CAPLUS

DN 116:83264

TI Synthesis of a new ketone and alcohol with C2 symmetry; (S,S,S,S)-tricyclo[6.3.0.03,7]undecan-2-one and (S,S,S,S)-tricyclo[6.3.0.03,7]undecan-2-ol

AU McIntosh, John M.; Cassidy, Kenneth C.

CS Dep. Chem., Univ. Windsor, Windsor, ON, N9B 3P4, Can.

SO Tetrahedron: Asymmetry (1991), 2(10), 1053-62 CODEN: TASYE3; ISSN: 0957-4166

DT Journal

LA English

GI

AB **Dissolving metal** reduction of known tricyclic enone 5 affords predominantly the racemic form of title ketone 3 whereas catalytic reduction gives the meso isomer. Neither ketone 3 nor alc. 4 could be satisfactorily resolved. Asym. synthesis of (-)-3 and (+)-4 (ee=91%) was effected from ketone (+)-13.

=> 19(1)111

L14 4 L9(L)L11

=> 110(1)111

L15 82 L10(L)L11

=> d 115 72-82 ti

- L15 ANSWER 72 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Pyran, its analogs, and related compounds. XIII. Further study of the anomalous reduction of ketone oximes by lithium aluminum hydride
- L15 ANSWER 73 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Syntheses of benzo[b] and benzo[j]phenanthridines
- L15 ANSWER 74 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Pyran series; its analogs and related compounds. VII. Peculiarities of reduction of 4-chromanone oxime and oximes of related ketones with lithium aluminum hydride
- L15 ANSWER 75 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Lithium aluminum hydride-aluminum chloride reduction of oximes
- L15 ANSWER 76 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Formation of homopiperazine rings by the lithium aluminum hydride catalyzed rearrangement of some piperidone oximes in the phenothiazine series
- L15 ANSWER 77 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Molecular rearrangements. VI. The rearrangement of **oximes** on reduction with lithium **aluminum hydride**
- L15 ANSWER 78 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Derivatives of oximes. II. Reduction of O- and N-alkyl oximes with lithium aluminum hydride
- L15 ANSWER 79 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Derivatives of oximes. II. Reduction of O- and N-alkyl oximes with lithium aluminum hydride
- L15 ANSWER 80 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Preparation of primary amines by reduction of **oximes** with lithium **aluminum hydrides** and by the Leuckart reaction
- L15 ANSWER 81 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Reduction of oximes with lithium aluminum hydride
- L15 ANSWER 82 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI The reduction of oximes with lithium aluminum hydride
- => d 115 75 ti fbib abs
- L15 ANSWER 75 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Lithium aluminum hydride-aluminum chloride reduction of oximes
- AN 1963:435104 CAPLUS
- DN 59:35104

. . . .

- OREF 59:6234b-d
- TI Lithium aluminum hydride-aluminum chloride reduction of oximes
- AU Rerick, Mark N.; Trottier, Claude H.; Daignault, Ronald A.; DeFoe, John D.
- CS Providence Coll., Providence, RI
- SO Tetrahedron Letters (1963) 629-34 CODEN: TELEAY; ISSN: 0040-4039
- DT Journal

4. Unavailable T.A Reduction of acetophenone oximes ArC(:NOH)Me (I) with LiAlH4 gave mixts, of AB 1-arylethylamines ArCH(NH2)Me (II), and N-ethylanilines ArNHEt (III). A series of I and other ketone oximes was reduced with LiAlH4 and the tabulated results compared with those of reduction with a highly electrophilic mixed hydride containing 1:4 LiAlH4AlCl2. Examination of the products by vapor phase chromatography and infrared spectroscopy showed that the ratio of III to II was increased by reduction with LiAlH4-AlC13 but that aliphatic and alicyclic ketoxime gave predominantly the primary amine. I gave predominantly the secondary amine but only those with unsubstituted rings or with rings substituted with electron donating groups gave almost exclusively III. The tabulated results called into question the validity of the interpretation of the formation of amines of type III by intervention of the Beckmann rearrangement of the oxime. The reduction of the alkylhydroxylamines (IV) Ph2CHNHOH and PhCH2NHOH, corresponding to the parent oximes, Ph2C:NOH and PhCH:NOH was investigated to ascertain the possibility of IV as an intermediate. Although IV was not isolated the presence of such an intermediate was detected and its formation in the above reduction was postulated.

```
=> d his
     (FILE 'HOME' ENTERED AT 09:26:18 ON 15 JUN 2006)
     FILE 'CAPLUS' ENTERED AT 09:27:34 ON 15 JUN 2006
L1
           8892 ALUMINUM HYDRIDE
     FILE 'REGISTRY' ENTERED AT 09:33:38 ON 15 JUN 2006
                E SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)(1,1-D
              1 E4
L2
L3
              1 E5
L4
              1 E6
                E NOPINONE/CN
L5
              1 E3
     FILE 'CAPLUS' ENTERED AT 09:36:51 ON 15 JUN 2006
L6
              9 L2 OR L3 OR L4
L7
            261 L5
L8
              3 L6 AND L7
L9
            609 DISSOLVING METAL
L10
           8892 ALUMINUM HYDRIDE
L11
          48361 OXIME
L12
              1 L9 AND L10
L13
              0 L11 AND L12
L14
              4 L9(L)L11
L15
             82 L10(L)L11
=> 14 and 115
             7 L4
L16
             0 L4 AND L15
=> 17 and 115
L17
             0 L7 AND L15
=> terpene
         20247 TERPENE
         30083 TERPENES
L18
         37682 TERPENE
                 (TERPENE OR TERPENES)
=> 115 and 118
L19
             0 L15 AND L18
```

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4 L9(L)L11

0 L4 AND L15

82 L10(L)L11

L15

L16

. 56 4

0 L7 AND L15 L17 37682 TERPENE L18 L19 0 L15 AND L18

=> aluminum chloride

926666 ALUMINUM 297 ALUMINUMS

926727 ALUMINUM

(ALUMINUM OR ALUMINUMS)

1079502 CHLORIDE 157380 CHLORIDES 1151596 CHLORIDE

(CHLORIDE OR CHLORIDES)

28249 ALUMINUM CHLORIDE L20

(ALUMINUM(W)CHLORIDE)

=> 115 and 120

L21 2 L15 AND L20

=> d 121 1-2 ti

L21 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

Synthesis of primary allenic amines

L21 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

Lithium aluminum hydride-aluminum chloride reduction of oximes

=> logoff hold

SINCE FILE TOTAL ENTRY SESSION COST IN U.S. DOLLARS 48.52 FULL ESTIMATED COST 82.08 SINCE FILE TOTAL ENTRY SESSION DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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PASSWORD:

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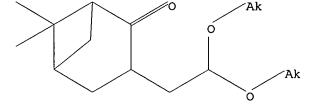
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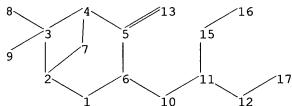
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chain nodes :

8 9 10 11 12 13 15 16 17

ring nodes :

1 2 3 4 5 6 7

chain bonds :

3-8 3-9 5-13 6-10 10-11 11-12 11-15 12-17 15-16

ring bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-13 11-12 11-15 12-17 15-16

exact bonds :

3-8 3-9 6-10 10-11

Hydrogen count :

1:>= minimum 2 5:>= minimum 1 6:>= minimum 1 10:>= minimum 2 11:>= minimum 1

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS

L22 STRUCTURE UPLOADED

=> d 122

L22 HAS NO ANSWERS

L22 STR

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SAMPLE SEARCH INITIATED 10:31:57 FILE 'REGISTRY'

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100.0% PROCESSED 100 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1401 TO 2599
PROJECTED ANSWERS: 0 TO 0

L23 0 SEA SSS SAM L22

=> search 122 sss full

FULL SEARCH INITIATED 10:32:05 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2160 TO ITERATE

100.0% PROCESSED 2160 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L24 0 SEA SSS FUL L22

=>

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chain nodes :

8 9 10 11 12 13 15 16 17

ring nodes :

1 2 3 4 5 6 7

chain bonds :

3-8 3-9 5-13 6-10 10-11 11-12 11-15 12-17 15-16

ring bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-13 11-12 11-15 12-17 15-16

exact bonds :

3-8 3-9 6-10 10-11

Hydrogen count :

1:>= minimum 2 6:>= minimum 1 10:>= minimum 2 11:>= minimum 1

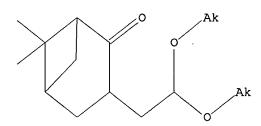
Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS

L25 STRUCTURE UPLOADED

=> d 125 L25 HAS NO ANSWERS L25 STR



Structure attributes must be viewed using STN Express query preparation.

0 ANSWERS

=> search 125 sss sam

SAMPLE SEARCH INITIATED 10:36:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 100 TO ITERATE

100.0% PROCESSED 100 ITERATIONS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1401 TO 2599

PROJECTED ANSWERS: 0 TO 0

L26

0 SEA SSS SAM L25

=> search 125 sss full
FULL SEARCH INITIATED 10:36:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2160 TO ITERATE

100.0% PROCESSED 2160 ITERATIONS SEARCH TIME: 00.00.01

1 ANSWERS

L27 1 SEA SSS FUL L25

=> d scan

L27 1 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

MF C15 H26 O3

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d 127

L27 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 318981-18-9 REGISTRY

ED Entered STN: 01 Feb 2001

CN Bicyclo[3.1.1]heptan-2-one, 3-(2,2-diethoxyethyl)-6,6-dimethyl-, (1R,3R,5S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C15 H26 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus TOTAL COST IN U.S. DOLLARS SINCE FILE ENTRY SESSION FULL ESTIMATED COST 339.30 421.38 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION -3.75CA SUBSCRIBER PRICE 0.00

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FILE COVERS 1907 - 15 Jun 2006 VOL 144 ISS 25 FILE LAST UPDATED: 14 Jun 2006 (20060614/ED)

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=> 127

L28

1 L27

=> d 128 ti fbib abns. 'ABNS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB ALL ----- BIB, AB, IND, RE APPS ----- AI, PRAI BIB ----- AN, plus Bibliographic Data and PI table (default)

CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data

CLASS ----- IPC, NCL, ECLA, FTERM

DALL ----- ALL, delimited (end of each field identified)

DMAX ----- MAX, delimited for post-processing

FAM ----- AN, PI and PRAI in table, plus Patent Family data

FBIB ----- AN, BIB, plus Patent FAM

IND ----- Indexing data

IPC ----- International Patent Classifications

MAX ----- ALL, plus Patent FAM, RE

PATS ----- PI, SO

SAM ----- CC, SX, TI, ST, IT

SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers; SCAN must be entered on the same line as the DISPLAY,

e.g., D SCAN or DISPLAY SCAN) STD ----- BIB, CLASS IABS ----- ABS, indented with text labels IALL ----- ALL, indented with text labels IBIB ----- BIB, indented with text labels IMAX ----- MAX, indented with text labels ISTD ----- STD, indented with text labels OBIB ----- AN, plus Bibliographic Data (original) OIBIB ----- OBIB, indented with text labels SBIB ----- BIB, no citations SIBIB ----- IBIB, no citations HIT ----- Fields containing hit terms HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT) containing hit terms HITRN ----- HIT RN and its text modification HITSTR ----- HIT RN, its text modification, its CA index name, and its structure diagram HITSEQ ----- HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields FHITSTR ---- First HIT RN, its text modification, its CA index name, and its structure diagram FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields KWIC ----- Hit term plus 20 words on either side OCC ----- Number of occurrence of hit term and field in which it occurs To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI, IND; TI, SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification. All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):end

=> d 128 ti fbib abs

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN Process for producing bicyclic amino alcohol from (+)-nopinone 2001:31442 CAPLUS AN DN 134:101033 Process for producing bicyclic amino alcohol from (+)-nopinone TΙ Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu IN Shionogi & Co., Ltd., Japan PA PCT Int. Appl., 50 pp. SO CODEN: PIXXD2 DTPatent LΑ Japanese FAN.CNT 1 DATE APPLICATION NO. PATENT NO. KIND

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DATE
                      ____
                            _____
                                       ______
                                                           20000626
PΙ
    WO 2001002334
                      A1 20010111 WO 2000-JP4171
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
           CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
           HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,
           LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
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SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG JP 1999-188674 A 19990702 EP 1193243 A1 20020403 EP 2000-939160 20000626 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO A 19990702 JP 1999-188674 WO 2000-JP4171 W 20000626 JP 3730170 20000626 B2 20051221 JP 2001-507777 JP 1999-188674 19990702 WO 2000-JP4171 W 20000626 20040420 US 6723857 В1 US 2002-19670 20020102 JP 1999-188674 A 19990702 WO 2000-JP4171 W 20000626 US 2004171882 Α1 20040902 US 2004-784930 20040225 JP 1999-188674 A 19990702 WO 2000-JP4171 W 20000626 US 2002-19670 A3 20020102 CASREACT 134:101033; MARPAT 134:101033

Me NH2 OH I

OS GI

AB The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with XCH2CO2R1 (X = halo; R1 = alkyl) in the presence of an additive and a base, followed by conversion of the product into an oxime, and reduction of the oxime. I is then converted in several steps to a known PGD2 antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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STN INTERNATIONAL SESSION SUSPENDED AT 10:37:53 ON 15 JUN 2006

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LOGINID: SSSPTA1623PAZ

PASSWORD:

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FULL ESTIMATED COST	3.20	424.58
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-4.50
=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.20	424.58
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.75	-4.50

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=> dmpu

L29 285 DMPU

=> alkylation

96014 ALKYLATION

2535 ALKYLATIONS

L30 96558 ALKYLATION

(ALKYLATION OR ALKYLATIONS)

=> 129(1)130

L31 31 L29(L)L30

=> d 131 12-31 ti

L31 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Enantioselective construction of vicinal stereogenic quaternary centers by

dialkylation: practical total syntheses of (+)- and meso-chimonanthine

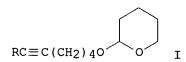
- L31 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Acylation and alkylation of 2- and 4-methylbenzonitrile
- L31 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Effect of Addends on Aggregation and Reactivity of the Lithium Enolate of p-Phenylisobutyrophenone
- L31 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI C-Alkylation of peptides containing aminomalonate and (amino) (cyano) acetate residues
- L31 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Process for alkylation and Smiles rearrangement of hydroxy aromatics
- L31 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Regio- and diastereoselective dialkylation of (4S)-2,4-dimethyl-2,4-dihydro-1H-pyrazino[2,1-b]quinazoline-3,6-dione
- L31 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Selective monoalkylation of diethyl malonate, ethyl cyanoacetate, and malononitrile using a masking group for the second acidic hydrogen
- L31 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Synthesis of cycloalkadiynes of various ring size
- L31 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Synthesis and structure of functionalized cyclododecadiynes and -dienes
- L31 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Preparation of cyclic sulfamides used for the synthesis of HIV protease inhibitors via cyclization of protected linear diamino diols with SO2 precursors followed by alkylation
- L31 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI A new synthesis of (\pm) -phoracantholide, (\pm) -dihydrorecifeiolide, and (\pm) -muscone via α -nitro ketones
- L31 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI The synthesis of deuterated 4-2H- α -farnesene and 1-2H- α -farnesene
- L31 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Enantioselective synthesis of 2-alkyl substituted cysteines
- L31 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI C-alkylation of sarcosine residues in cyclic tetrapeptides via lithium enolates
- L31 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI C-Alkylation of peptides through polylithiated and lithium chloride solvated derivatives containing sarcosine lithium enolate units
- L31 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Replacement of carcinogenic solvent HMPA by DMI in insect sex pheromone synthesis
- L31 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI trans-Disubstituted cyclohexadienes via sequential addition of a carbon nucleophile and an electrophile to (n6-benzene)tricarbonylchromium: scope of carbon electrophiles

- L31 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Mono- and dialkylation of derivatives of (1R,2S)-2hydroxycyclopentanecarboxylic acid and -cyclohexanecarboxylic acid via bicyclic dioxanones: selective generation of three contiguous stereogenic centers on a cyclohexane ring
- L31 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI 1,3-Dimethyl-2-oxohexahydropyrimidine (DMPU): an alternative to HMPT in moth sex pheromone synthesis
- L31 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Stereoselective alkylation at $C(\alpha)$ of serine, glyceric acid, threonine, and tartaric acid involving heterocyclic enolates with exocyclic double bonds

=> d 131 30 ti fbib abs

- L31 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
- TI 1,3-Dimethyl-2-oxohexahydropyrimidine (DMPU): an alternative to HMPT in moth sex pheromone synthesis
- AN 1988:549114 CAPLUS
- DN 109:149114
- TI 1,3-Dimethyl-2-oxohexahydropyrimidine (DMPU): an alternative to HMPT in moth sex pheromone synthesis
- AU Bengtsson, Marie; Liljefors, Tommy
- CS Dep. Org. Chem., Univ. Lund, Lund, S-221 00, Swed.
- SO Synthesis (1988), (3), 250-2 CODEN: SYNTBF; ISSN: 0039-7881
- DT Journal
- LA English
- OS CASREACT 109:149114

GΙ



AB DMPU proved to be a good substitute for the carcinogenic HMPA as a cosolvent in the alkylation of lithioalkynes. Thus, treatment of alkyne I (R = H) with BuLi in THF, followed by Me(CH2)nI (n = 0, 1) in DMPU gave 91-93% I [R = (CH2)nMe) which on treatment with AcCl-AcOH gave Me(CH2)nC.tplbond.C(CH2)4OAc quant.

=> logoff hold COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 18.30 442.88 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) TOTAL SINCE FILE ENTRY SESSION CA SUBSCRIBER PRICE -0.75-5.25

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STN INTERNATIONAL SESSION SUSPENDED AT 11:06:20 ON 15 JUN 2006

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LOGINID: SSSPTA1623PAZ
PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
d hilogoff hold\]\
Connection closed by remote host
<---->
Connecting via Winsock to STN
SESSION RESUMED IN FILE 'CAPLUS' AT 11:33:09 ON 15 JUN 2006
FILE 'CAPLUS' ENTERED AT 11:33:09 ON 15 JUN 2006
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LOGINID: SSSPTA1623PAZ
PASSWORD:
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SESSION RESUMED IN FILE 'CAPLUS' AT 11:35:34 ON 15 JUN 2006
FILE 'CAPLUS' ENTERED AT 11:35:34 ON 15 JUN 2006
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COST IN U.S. DOLLARS
                                                 SINCE FILE
                                                                TOTAL
                                                             SESSION
                                                      ENTRY
FULL ESTIMATED COST
                                                      19.22
                                                               443.80
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
                                                 SINCE FILE
                                                                TOTAL
                                                      ENTRY
                                                               SESSION
CA SUBSCRIBER PRICE
                                                      -0.75
                                                               -5.25
=> d his
     (FILE 'HOME' ENTERED AT 09:26:18 ON 15 JUN 2006)
     FILE 'CAPLUS' ENTERED AT 09:27:34 ON 15 JUN 2006
L1
           8892 ALUMINUM HYDRIDE
     FILE 'REGISTRY' ENTERED AT 09:33:38 ON 15 JUN 2006
                E SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)(1,1-D
L2
              1 E4
L3
              1 E5
L4
              1 E6
               E NOPINONE/CN
L5
              1 E3
     FILE 'CAPLUS' ENTERED AT 09:36:51 ON 15 JUN 2006
              9 L2 OR L3 OR L4
L6
L7
            261 L5
             3 L6 AND L7
^{\text{L8}}
L9
            609 DISSOLVING METAL
           8892 ALUMINUM HYDRIDE
L10
L11
          48361 OXIME
L12
             1 L9 AND L10
L13
              0 L11 AND L12
L14
              4 L9(L)L11
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a 30 7

8? L10(L)L11 L15 0 L4 AND L15 L16 0 L7 AND L15 L17 37682 TERPENE L18 L19 0 L15 AND L18 L20 28249 ALUMINUM CHLORIDE 2 L15 AND L20 L21 FILE 'REGISTRY' ENTERED AT 10:31:30 ON 15 JUN 2006 STRUCTURE UPLOADED L22 0 SEARCH L22 SSS SAM L23 0 SEARCH L22 SSS FULL L24 STRUCTURE UPLOADED L25 L26 0 SEARCH L25 SSS SAM 1 SEARCH L25 SSS FULL L27 FILE 'CAPLUS' ENTERED AT 10:37:12 ON 15 JUN 2006 L28 1 L27 FILE 'CAPLUS' ENTERED AT 10:59:48 ON 15 JUN 2006 L29 285 DMPU L30 96558 ALKYLATION 31 L29(L)L30 L31 => file req COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 19.22 443.80 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

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-0.75

-5.25

STRUCTURE FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5 DICTIONARY FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5

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m) #

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http://www.cas.org/ONLINE/UG/regprops.html

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 72453-33-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN Silane, [[(1R,5S)-6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]trimethyl-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl-, (1R)-

FS STEREOSEARCH

MF C12 H22 O Si

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL (*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)

7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 24903-95-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Norpinanone, 6,6-dimethyl- (6CI, 7CI, 8CI)

OTHER NAMES:

CN β -Pinone

CN 6,6-Dimethylbicyclo[3.1.1]heptan-2-one

CN Nopinone

CN NSC 135004

FS 3D CONCORD

DR 473-60-9, 30469-48-8

MF C9 H14 O

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, IFICDB, IFIPAT, IFIUDB, NAPRALERT, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

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Me O
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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
             257 REFERENCES IN FILE CA (1907 TO DATE)
             261 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
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                   NORCAMPHIDIN/CN
E1
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E2
             1
                   NORCAMPHIDINE/CN
             1 --> NORCAMPHOR/CN
E3
E4
             1
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E5
             1
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             1
                   NORCAMPHOR ETHYLENE KETAL/CN
E6
                   NORCAMPHOR HYDRAZONE/CN
E7
             1
             1
                   NORCAMPHOR, 1,1'-(DITHIODIMETHYLENE)BIS(3,3-DIMETHYL-/CN
E8
                   NORCAMPHOR, 1,3,3,5,5-PENTAMETHYL-, OXIME/CN
E9
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E10
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E11
             1
                   NORCAMPHOR, 1,3-DIMETHYL-/CN
            1
                   NORCAMPHOR, 1,4,5,5-TETRAMETHYL-/CN
E12
=> e3
            1 NORCAMPHOR/CN
L32
=> d 132
L32 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
     497-38-1 REGISTRY
     Entered STN: 16 Nov 1984
     Bicyclo[2.2.1]heptan-2-one (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     2-Norbornanone (6CI, 8CI)
OTHER NAMES:
CN
     (±)-2-Norbornanone
     (±)-Norcamphor
CN
CN
     2,5-Methanocyclohexanone
CN
     2-Oxonorbornane
CN
    dl-Norcamphor
CN
    Norcamphor
     NSC 66537
CN
CN
     NSC 92359
     Racemic norcamphor
CN
     3D CONCORD
FS
DR
     22270-13-9
MF
    C7 H10 O
CI
     COM
                 AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS,
LC
       CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*,
       IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, RTECS*, SPECINFO, TOXCENTER,
       USPAT2, USPATFULL
```

(*File contains numerically searchable property data)

ye day 🚓

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1038 REFERENCES IN FILE CA (1907 TO DATE)

23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1040 REFERENCES IN FILE CAPLUS (1907 TO DATE)

27 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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